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## INSTALLATION INSTRUCTIONS

for

***KODAK Multiloader 700 Side-by-Side Kit,***

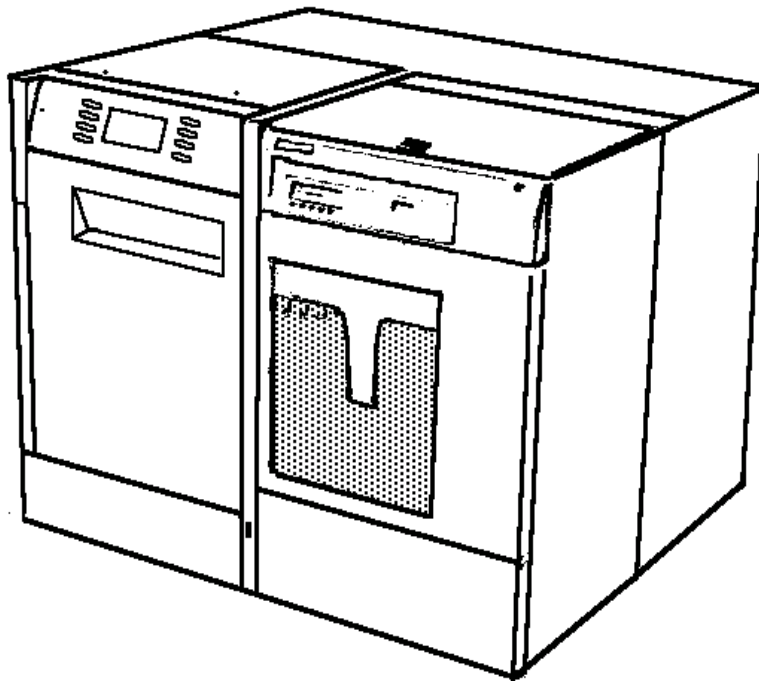
***KODAK Multiloader 700/700 Plus Side-by-Side Kit/5000 RA,***

***KODAK Multiloader 700 Plus Side-by-Side Darkroom Kit***

and for the

***SEISMIC BRACKETS for the***

***KODAK Multiloader 700 Side-by-Side Kit***



#### **PLEASE NOTE**

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# SEQUENCE OF INSTALLATION



# **1. INTRODUCTION**

## **IMPORTANT INFORMATION**

### **NOTE**

**Accessory Model KODAK MULTILOADER 700 SIDE-BY-SIDE KIT** for use only with applicant's film handling units where the acceptability of the combination is determined by Underwriter Laboratories Inc.

- KODAK MULTILOADER 700
- KODAK MULTILOADER 700 PLUS
- KODAK X-OMAT 460RA PROCESSOR
- KODAK X-OMAT 480RA PROCESSOR
- KODAK X-OMAT M6B PROCESSOR

**Accessory Model KODAK MULTILOADER 700/700PLUS SIDE-BY-SIDE KIT /5000RA** for use only with applicant's film handling units where the acceptability of the combination is determined by Underwriter Laboratories Inc.

- KODAK MULTILOADER 700
- KODAK MULTILOADER 700 PLUS
- KODAK X-OMAT 5000RA PROCESSOR

## **SAFETY PRECAUTION**

If the electrical connection of the **KODAK MULTILOADER 700 SIDE-BY-SIDE KIT** is hardwired a MAIN POWER SWITCH consisting of a 2-pole switch with a solid neutral and common trip must be-

- located on a wall adjacent to the SIDE-BY-SIDE KIT
- easily accessible
- visible from the front of the SIDE-BY-SIDE SYSTEM.

Ensure that the electrical connection to the mains for

- KODAK MULTILOADER 700 is as stated in Site Specification N-704
- KODAK RP X-OMAT PROCESSOR M6B is as stated in Site Specification 635883
- KODAK X-OMAT 460/480 RA PROCESSOR is as stated in Site Specification 246613

If the SIDE-BY-SIDE KIT or the ML700 or the PROCESSOR is connected with a POWER CORD and PLUG to the mains, easily accessible and visible wall outlets close to the SIDE-BY-SIDE KIT must be provided.

If the electrical connection of the **KODAK MULTILOADER 700/700 PLUS SIDE-BY-SIDE KIT /5000 RA** is hardwired a MAIN POWER SWITCH consisting of a 2-pole switch with a solid neutral and common trip must be-

- located on a wall adjacent to the SIDE-BY-SIDE KIT/5000 RA
- Easily accessible
- visible from the front of the SIDE-BY-SIDE 5000 RA SYSTEM.

Ensure that the electrical connection to the mains for

- KODAK MULTILOADER 700 is as stated in Site Specification N-704
- KODAK MULTILOADER 700 PLUS is as stated in Site Specification 8B7005
- KODAK X-OMAT 5000 RA PROCESSOR is as stated in Site Specification 5B6338

If the SIDE-BY-SIDE KIT /5000 RA or the ML700, ML700 PLUS or the PROCESSOR is connected with a POWER CORD and PLUG to the mains, easily accessible and visible wall outlets close to the SIDE-BY-SIDE KIT /5000 RA must be provided.

## **ELECTRICAL SAFETY**

**After the installation of the complete system check the electrical safety. Follow your local regulations.  
Ensure that all panels are mounted properly.**

## **CAUTION**

**This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use care to prevent damage during all service procedures.**

## **NOTE**

**The unpacking and the assembly of the SIDE-BY-SIDE KIT cannot be done by one person. This is a two man job. The SBS is very heavy.**

## PACKING LIST

### NOTE

**THE SBS POWER CORD WITH THE IEC CONNECTOR IS NOT PART OF THE INSTALLATION KIT. IT MUST BE BOUGHT LOCALLY.**

### SBS

### NOTE

The 2 adhesive COVERS are only needed if the SBS is installed without an DFT In this case the opening in the rear COVER PLATE must be closed lighttight with these covers.

ADHESIVE BACK DFT COVER large .....	1
ADHESIVE BACK DFT COVER small .....	1
AMP INSULATED CONNECTOR .....	1
AMP Y ADAPTER.....	1
CABLE for RA-PROCESSOR 9261166 .....	1
CABLE TUNNEL SENSOR SHORT 9261056.....	1
COVER PCB A4 .....	1
EXTENSION CABLE for ADAPTER MOTOR (ML700 right only) .....	1
FITTING straight 16 mm .....	1
FITTING straight 8 mm .....	1
FOAM RUBBER 12x12.....	10m
FUSE T2A 250V (UL/CSA) .....	1
HANDLE TO SEPARATE THE SBS.....	1
HOSE CLAMPS 9198351 .....	2
HOSE EXTENSION 9198371 .....	1
HOSE EXTENSION 9198381 .....	1
LEVELLING FOOT .....	3
MAIN SWITCH REMOTE ON/OFF (not for 5000RA).....	1
PLASTIC SCREW M4x10 4283011 .....	2
PROCESSOR START CABLE for M6B 9192226 .....	1
SBS CARRIAGE .....	1
SBS PLATE for ML700 with MOUNTING BOLTS .....	1
SBS TOP COVER .....	1
SCREW ALLEN HEAD M4x16 .....	4
SEAL PLATE 9261236 .....	1
COVER PLATE 9261551 (not for 5000RA) .....	1

### NOTE

The SERVICE PLATE should be stored underneath the SBS. In case of a ML700 SERVICE it is used to make the SBS light-tight to allow film input via the DFT.

SERVICE PLATE .....	1
---------------------	---



SHRINKING TUBE 40mm diameter .....	4.2m
SIDE PANELS.....	2
SIDE-BY-SIDE KIT .....	1
SUPPORT LEG .....	3
WALL ANCHOR .....	2
WIRE TIE .....	2
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## PROCESSOR ADAPTER

ADAPTER COVER .....	1
ADAPTER FRAME WITH CONVEYER .....	1
FILM GUIDE .....	1
NUT M5 .....	2
SBS MOUNTING BOLT .....	2
SCREW ALLEN HEAD M4x16 .....	2
SCREW M5x50 .....	2
WASHER .....	2
SCREW 8-32 x 3/8 inch.....	5

## DFT

COUNTERSUNK SCREW M4x20 .....	4
FEED TRAY COVER .....	1
FEED TRAY with REED RELAY .....	1
LED BOX.....	1
MOUNTING BRACKET .....	2
SCREW M4x10 .....	4
SCREW M5x12 .....	2
WASHER M4 .....	4
WASHER M5 .....	2
BRIGHTNESS CONTROL PCB.....	1

## SPECIAL TOOLS

PERMANENT MAGNET (2x) .....	PN 544240
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## GENERAL INFORMATION

The SIDE-BY-Side Kit (hereafter called SBS in this publication) is already set-up for customer needs. This means the SBS is set up in the correct orientation (ML700 left or right of the PROCESSOR) and for the selected PROCESSOR. This set up is done in the factory. However this set-up can be changed in the field if necessary. This change is described in the last chapter of this publication. If an existing ML700 is upgraded with an SBS, ensure that the ML700 has an OPERATING SOFTWARE Version => 4.0.

1. If a PROCESSOR M6B is to be used, a PROCESSOR READY KIT (CAT. NO. 7094865) must be installed.
2. A POWER CORD 6051531 must be ordered separately if a PROCESSOR M6B up to SN 20000 or a 460RA up SN 1132 is installed with the SBS. This cable is needed as an ADAPTER between CABLE 9261071 and the SAFELIGHT RECEPTACLE of the above mentioned PROCESSORS.

## **SITE INSPECTION**

Prior to the installation check the site for:

1. Correct wall cut-out, if a DARK ROOM FEED TRAY (DFT) is to be used and the availability of a large wooden WALL PLATE to make the wall cut-out light tight around the DFT, especially if there was a PROCESSOR installed before.

### **NOTE**

This large WALL PLATE is not provided by the factory. The customers premises are unknown to the factory. A small SEAL PLATE for feeding the hoses and the air exhaust to the DARK ROOM will be provided by the factory. This small SEAL PLATE makes the cut-out around the supply hoses light tight.

2. Check that all supplies (plumbing, electrical and exhaust) are correct. 4.2 m of SHRINKING TUBE is supplied with the SBS to make the transparent DRAIN TUBES light tight when routed into the DARK ROOM. If FIXER MANAGER and AUTOMIXER are to be used, additional SHRINKING TUBE is required.

### **NOTE**

The air exhaust for the PROCESSOR must have a negative air pressure 24 hours a day.

3. Check your local safety requirements if a separate PROCESSOR MAIN SWITCH at the wall is necessary.

## **SEISMIC BRACKETS**

If SEISMIC BRACKETS have to be installed due to local regulations, order the SEISMIC BRACKET KIT Part Number 8B6586.

## UNPACKING THE SIDE-BY-SIDE KIT

### NOTE

The unpacking and the assembly of the **SIDE-BY-SIDE KIT** cannot be done by one person. This is a two man job. The SBS is very heavy.

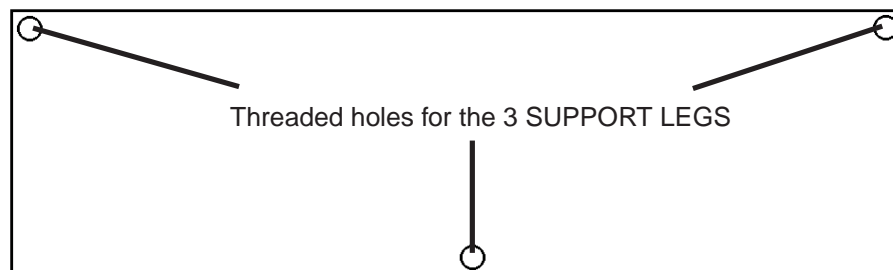
1. Take out all parts of the PACKING BOXES of the SBS and of the ADAPTER (one box each) and compare them with the packing list.
2. Take the 3 SUPPORT LEGS and screw them fully into the BASE PLATE of the SBS and screw the LEVELLING FEET into the SUPPORT LEGS. See figure 1-1 on the next page.
3. Stand the SBS on its legs.

### NOTE

Use care to prevent bending of the SUPPORT LEGS.

4. The SBS CARRIAGE will be inserted during the FINAL ASSEMBLY.

Bottom view of the SBS



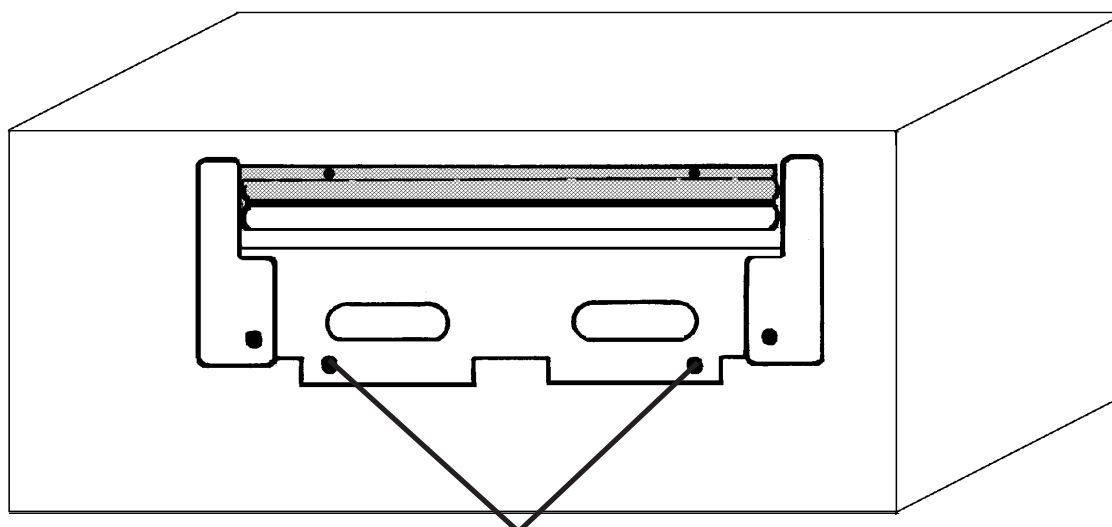
ML700 / Processor side

figure 1-1



## 2. CONNECTING THE ADAPTER TO THE 460/480RA PROC.

1. Take the CONVEYER out of the ADAPTER.



Take out these 2 SCREWS and pull out the CONVEYER

figure 2-1

2. Screw the SBS MOUNTING BOLTS to the rear of the ADAPTER. Select the correct position for ML700 left / right. Use SCREWS M5x50.

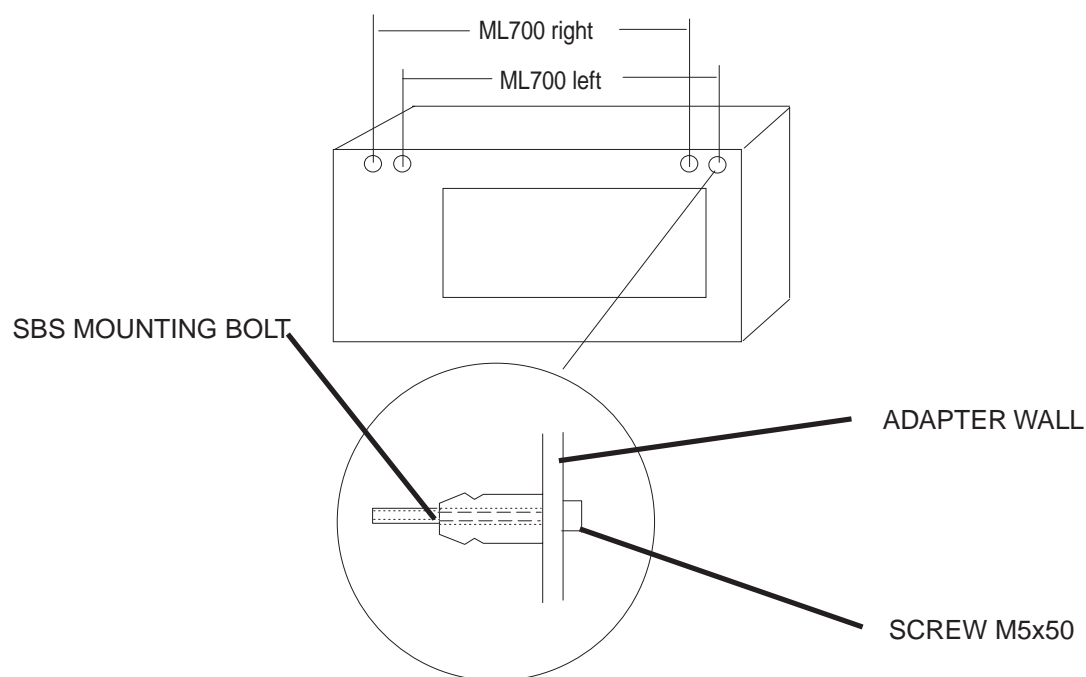


figure 2-2

3. Mount the ADAPTER FRAME to the rear of the PROCESSOR. Use the existing 2 bottom screws only. These SCREWS are packed with the PROCESSOR INSTALLATION KIT.

### NOTE

The PROCESSOR SCREWS are UNC thread, the SBS and ML700 SCREWS are metric.

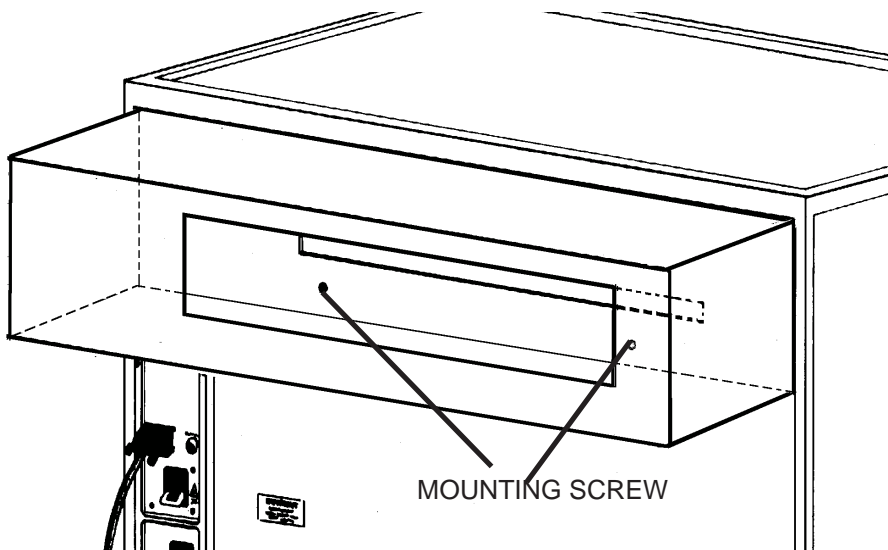


figure 2-3

4. Mount the FILM GUIDE and fix it with 3 SCREWS (UNC). These SCREWS are packed with the PROCESSOR INSTALLATION KIT. If necessary add WASHERS from the PROCESSOR INSTALLATION KIT.

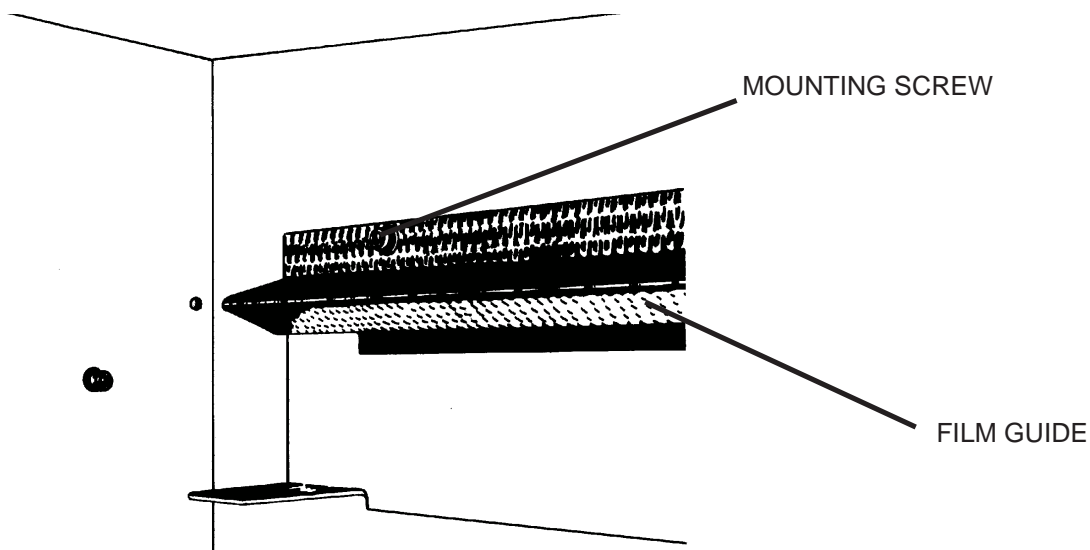


figure 2-4

5. Insert the CONVEYER into the ADAPTER. There are V-shaped guides on either side of the CONVEYER FRAME. They guide the CONVEYER into the correct position.

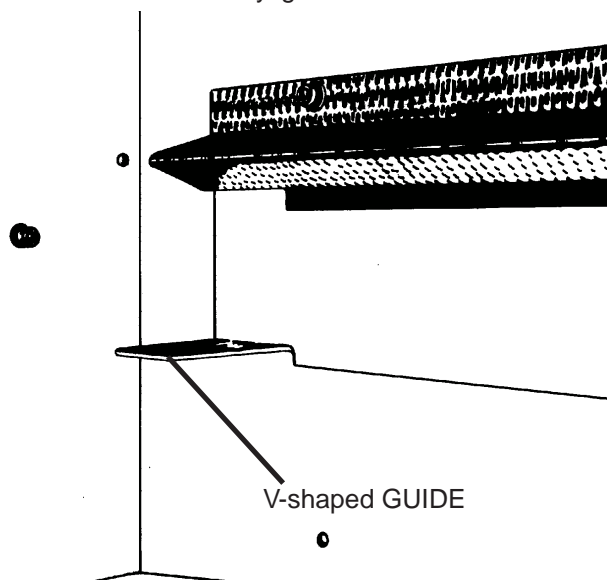


figure 2-5

6. Route the cable out of the ADAPTER. The SENSOR - and MOTOR WIRES will be connected later to PCB A4.
7. Fix the CONVEYER in place with 2 MOUNTING SCREWS. Use SCREWS M4x10.

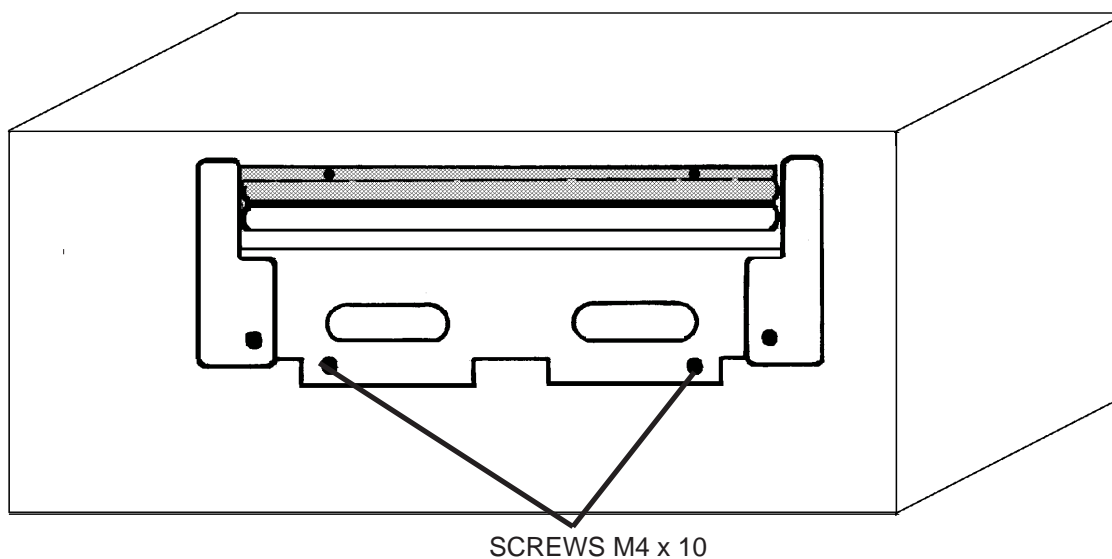


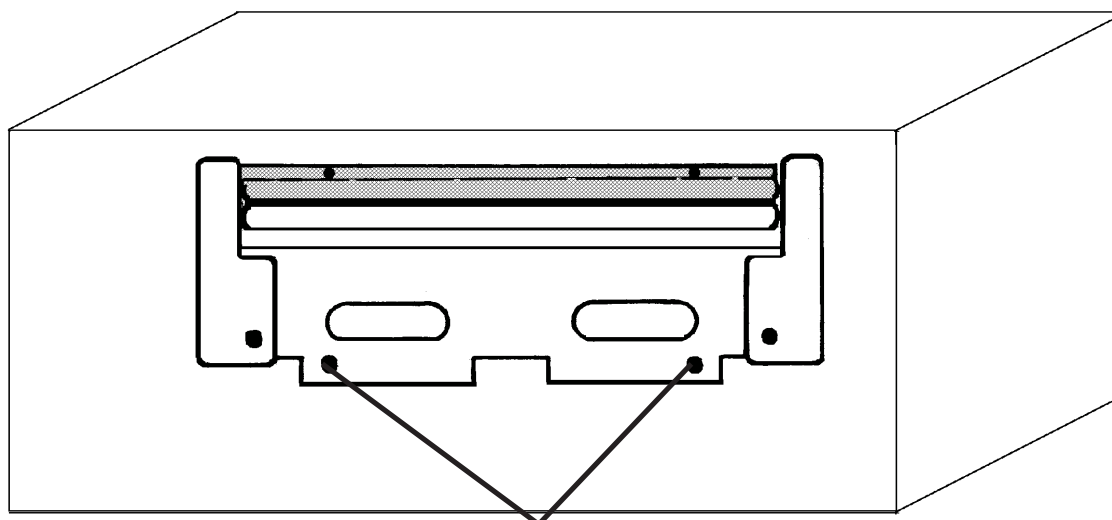
figure 2-6

- 8.** Take out and discard the WIRE TIES at either side of the ADAPTER EXIT ROLLERS. They are needed during transportation only to keep the upper EXIT ROLLER in place.
- 9.** Set up the PROCESSOR as required. See the PROCESSOR INSTALLATION MANUAL.



### 3. CONNECTING THE ADAPTER TO THE PROC. M6B

1. Take the CONVEYER out of the ADAPTER.



Take out these 2 SCREWS and pull out the CONVEYER

figure 3-1

2. Screw the SBS MOUNTING BOLTS to the rear of the ADAPTER. Use SCREWS M5x50.

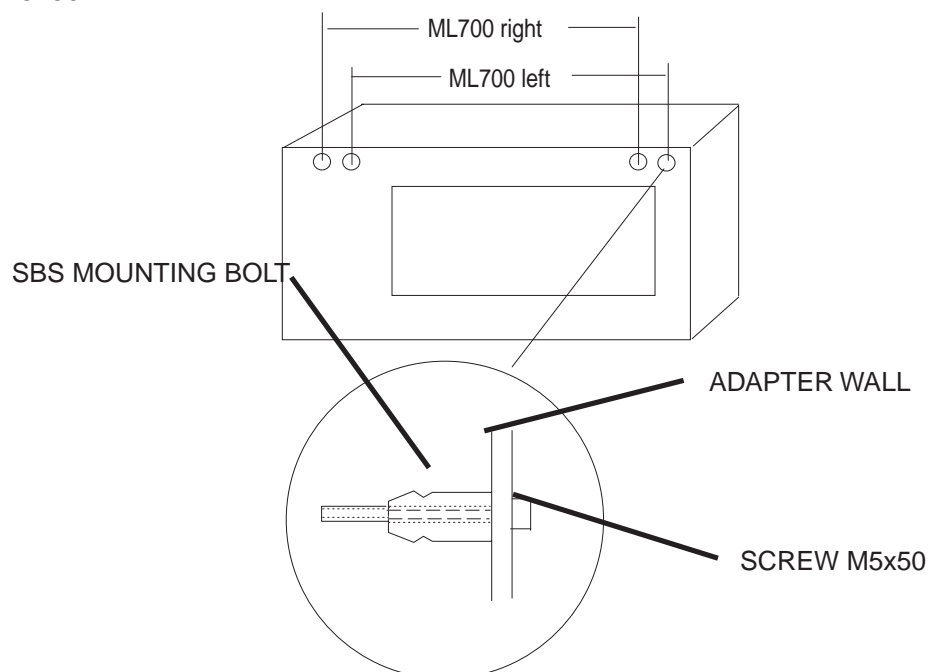


figure 3-2

3. Take out the CONNECTOR for the AUX/RUN CABLE ASSEMBLY at the rear of the M6B. Store the harness with CONNECTOR inside the M6B and ensure that it does not come into conflict with moving parts.

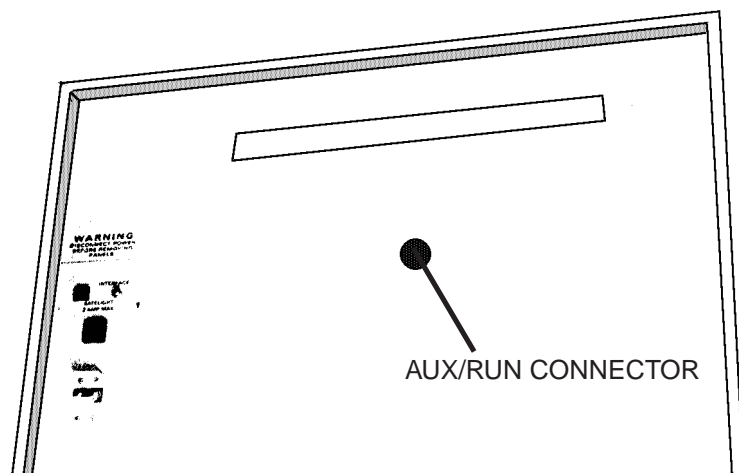


figure 3-3

4. Mount the ADAPTER FRAME to the rear of the PROCESSOR. Use the existing 2 bottom screws only. If necessary add WASHERS from the PROCESSOR INSTALLATION KIT.

### NOTE

The PROCESSOR SCREWS are UNC, the SBS and ML700 SCREWS are metric.

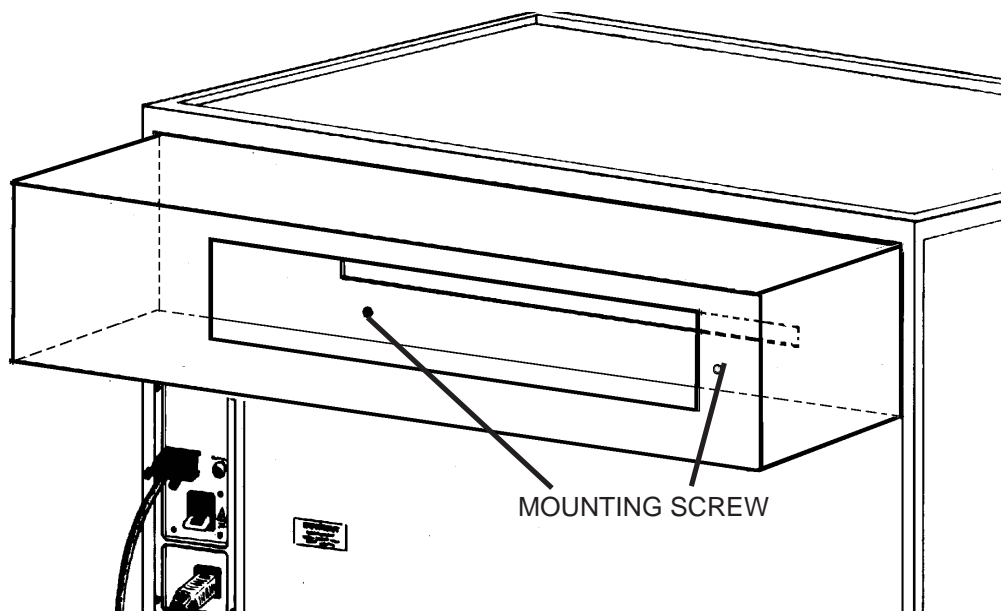


figure 3-4

5. Mount the FILM GUIDE and fix it with 3 SCREWS (UNC). These SCREWS are packed with the PROCESSOR INSTALLATION KIT. If necessary add WASHERS from the PROCESSOR INSTALLATION KIT.

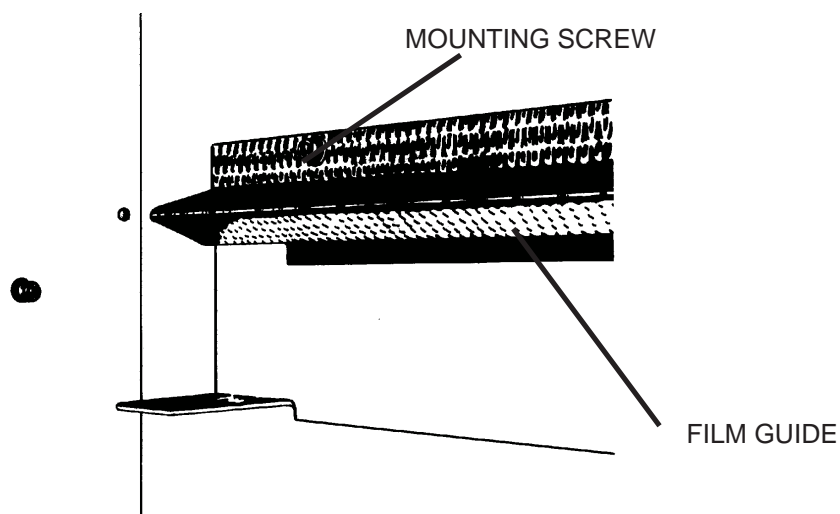


figure 3-5

6. Insert the CONVEYER into the ADAPTER. There are V-shaped guides on either side of the ADAPTER FRAME. They guide the CONVEYER into the correct position.

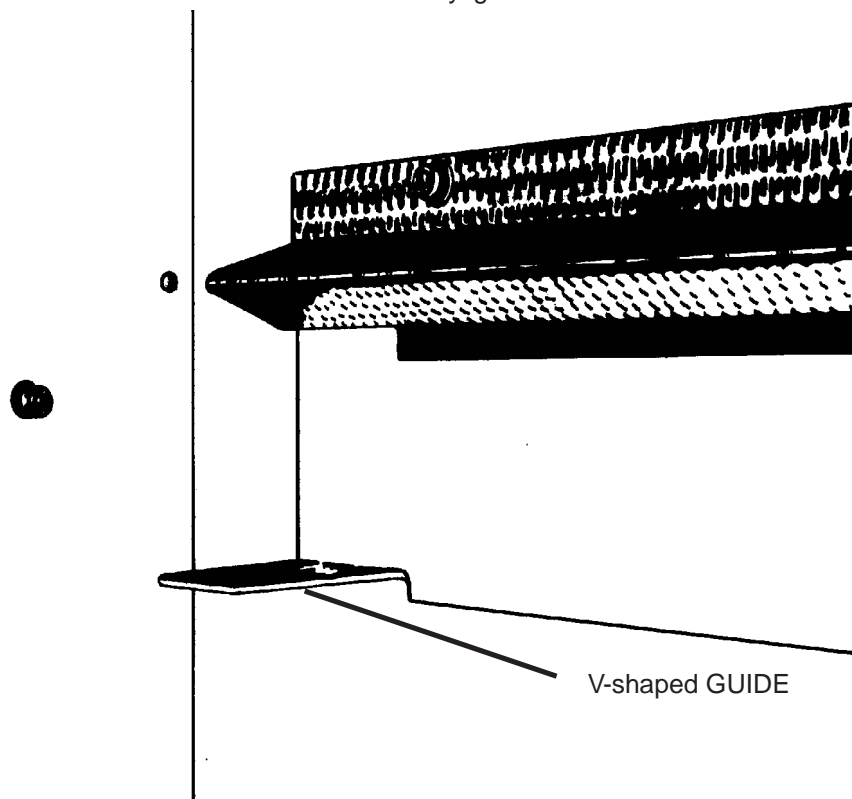


figure 3-6

7. Route the cable out of the ADAPTER. The SENSOR- and Motor WIRES will be connected later to PCB A4.
8. Fix the CONVEYER in place with 2 MOUNTING SCREWS. Use SCREWS M4 x 10.

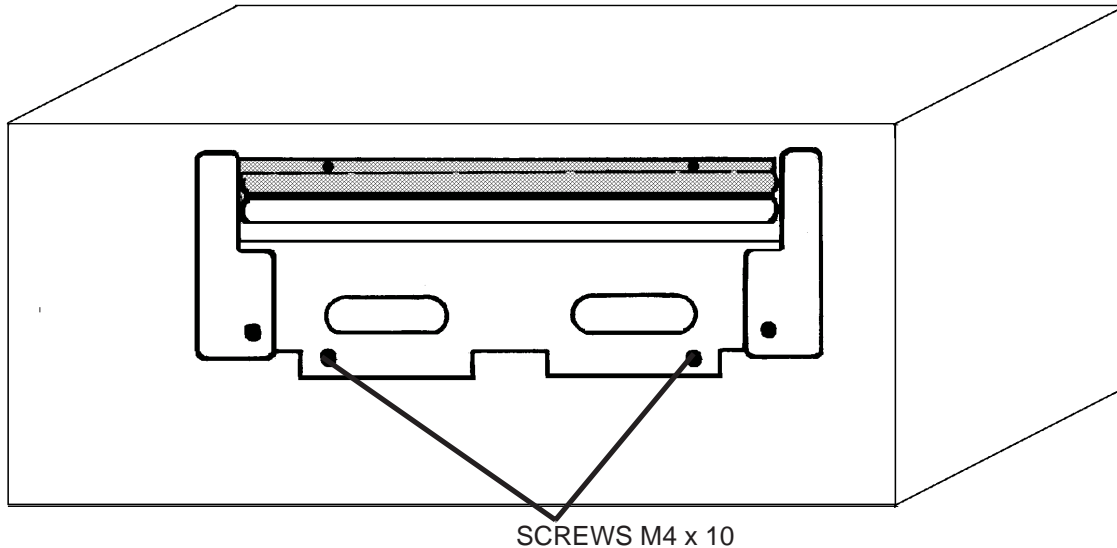


figure 3-7

9. Take out and discard the WIRE TIES at either side of the ADAPTER EXIT ROLLERS. They are needed during transportation only to keep the upper EXIT ROLLER in place.
10. Set up the PROCESSOR as required and install the PROCESSOR READY KIT. See the PROCESSOR INSTALLATION MANUAL.

#### NOTE

The PROCESSOR START SIGNAL from the M6B goes to CONNECTOR A4X17 of PCB A4 (SBS). Ensure that PIN 2 of this CONNECTOR receives +9 Volts from the M6B. If +9 Volts are applied to PIN 1 of this CONNECTOR, the OPTOCOUPLER U8 on PCB A4 (SBS) would not react to the PROCESSOR START SIGNAL.

## 4. DARK ROOM FEED TRAY

1. Mount the 2 DFT SUPPORT BRACKETS to the rear of the SBS. Select the PROCESSOR side. To mount the SUPPORT BRACKETS use 4 SCREWS M4X10. This could be left or right, depending on the orientation of the system.

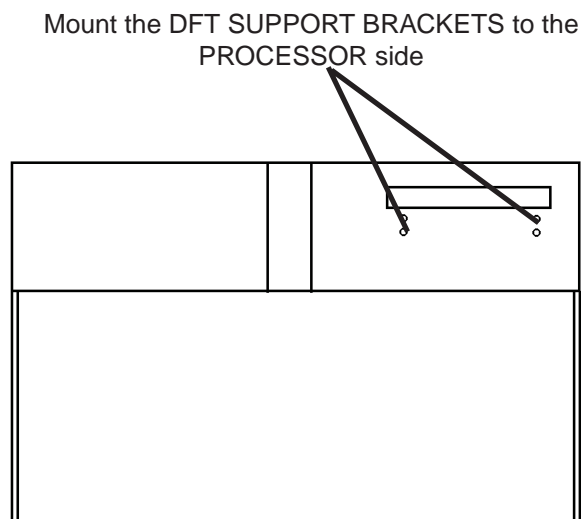


figure 4-1

2. Route the wires of the RED/GREEN LED BOX through the DFT opening. Connect the wires to the FLAT 3 PIN CONNECTOR at the inner side of the SBS REAR WALL.

### NOTE

Fix the LED BOX preliminarily with tape to the SBS to prevent the wires from breaking.

3. Place the DFT FEED SHELF onto the SUPPORT BRACKETS, route the DFT SENSOR HARNESS into the SBS and connect it to the FLAT 2 PIN CONNECTOR at the inner side of the SBS REAR WALL.
4. Mount the FEED TRAY to the SUPPORT BRACKETS with 2 SCREWS M5x12. Push it fully against the SBS and then fasten the SCREWS. Ensure that the DFT SOLENOID WIRES are inside the SBS.
5. Connect the DFT SOLENOID CONNECTOR to the round CONNECTOR at the rear side of the SBS REAR WALL.
6. Place the DFT TOP COVER onto the FEED TRAY. Mount it with 4 COUNTERSUNK SCREWS M4x20 to the rear of the SBS.



## 5. SBS SETTING

### VOLTAGE SETTING SBS TRANSFORMERS

The SBS can be set to one of the following line voltages (50/60 Hz)

LINE VOLTAGE	WIRING TRANSFORMER T1	WIRING TRANSFORMER T2
240V +6 -10% 50/60 Hz	Terminal 7 and Terminal 1	Terminal 7 and Terminal 1
230V +6 -10% 50 Hz	Terminal 7 and Terminal 2	Terminal 7 and Terminal 2
220V +6 -10% 50 Hz	Terminal 7 and Terminal 3	Terminal 7 and Terminal 3
120V +6 -10% 60 Hz	Terminal 7 and Terminal 4	Terminal 7 and Terminal 4
100V +6 -10% 50 Hz	Terminal 3 and Terminal 4	Terminal 3 and Terminal 4

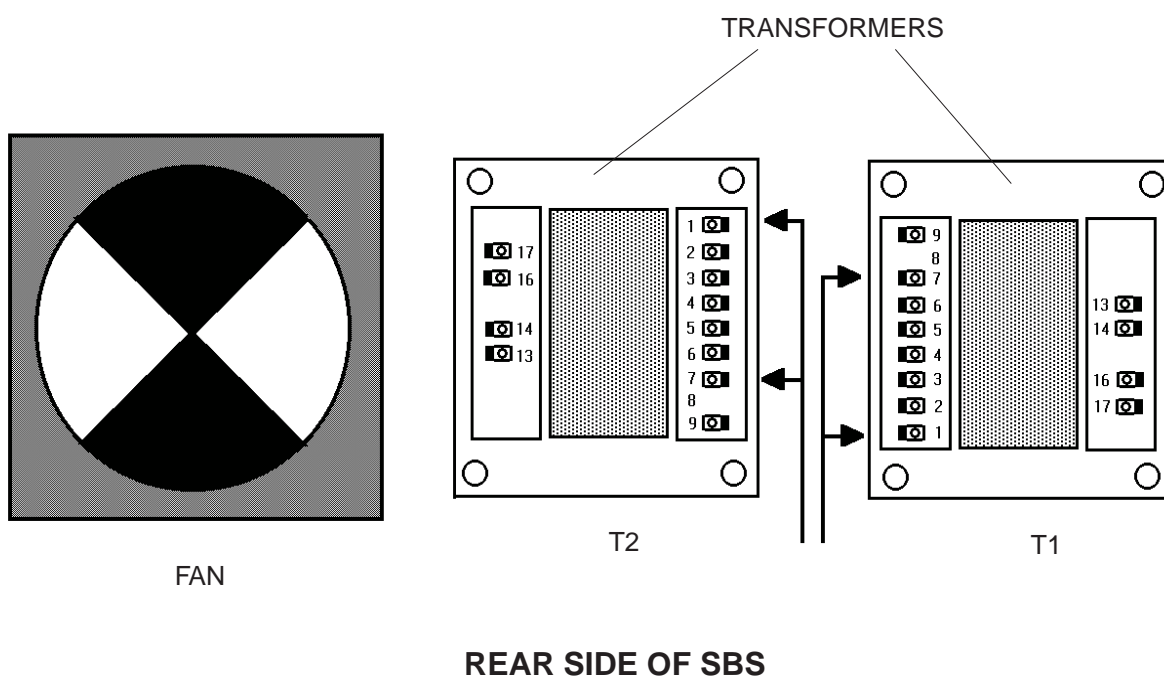
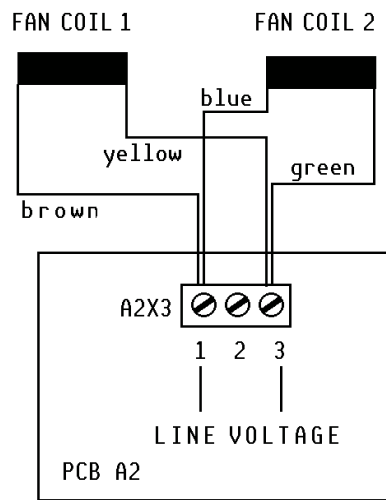


figure 5-1

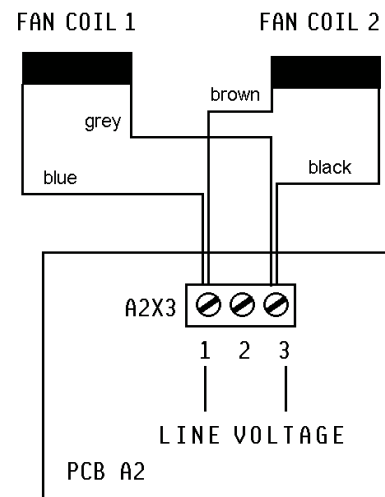
## VOLTAGE SETTING SBS FAN

The voltage setting for the FAN must be done on SBS-PCB A2.

If the line voltage is 100/120V (+6 -10%), wire the FAN as follows:



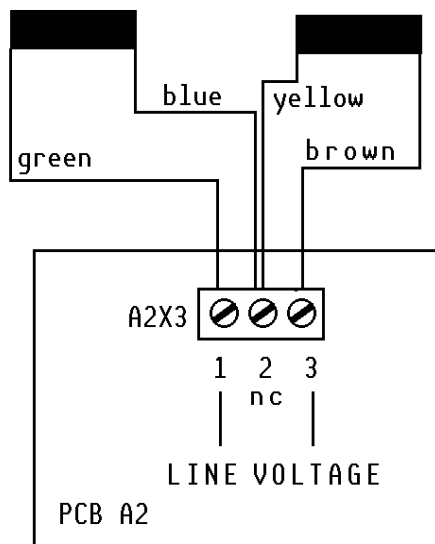
Old style FAN



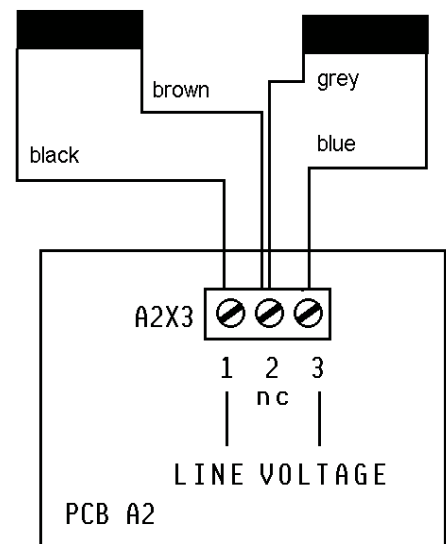
New style FAN

figure 5-2

If the line voltage is 220/230/240V (+6 -10%), wire the FAN as follows:



Old style FAN



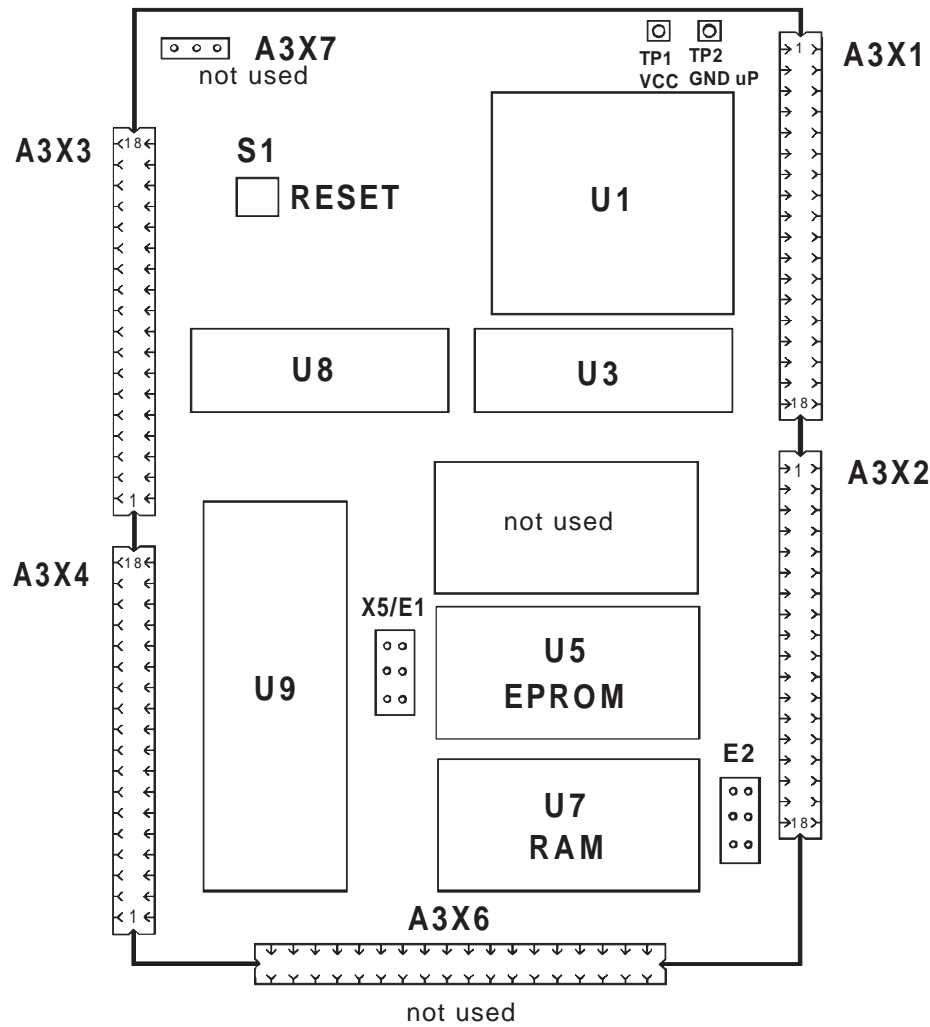
New style FAN

figure 5-3



JUMPER SETTING

SBS-PCB A3 JUMPER X5.



JUMPER SETTING

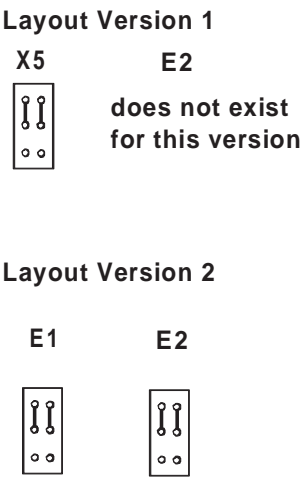


figure 5-4

SWITCH SETTING

SWITCH S2 on SBS-PCB A4 has to be set as follows:

	ML700 RIGHT	ML700 LEFT	460/480RA	M6B	5000RA
S2-1	ON	OFF			
S2-2			ON	OFF	OFF
S2-3			ON	OFF	ON

## FUSE IN THE IEC CONNECTOR

LINE VOLTAGE	EUROPE	USA / CANADA	OTHER COUNTRIES
100 V	---	---	T 3.15A (IEC)
120 V	---	T 2A ( SLOW BLOW)	---
220 V	T 3.15A (IEC)	---	T 3.15A (IEC)
230 V	T 3.15A (IEC)	---	T 3.15A (IEC)
240 V	T 3.15A (IEC)	T 2A (SLOW BLOW)	T 3.15A (IEC)

## COVER PLATE

A COVER PLATE has to be mounted to the housing of the POWER SUPPLY. This PLATE prevents parts from falling onto PCB A3/4 during a maintenance call or when the operator opens the SBS TOP COVER for any reason. The COVER PLATE is mounted with 2 PLASTIC SCREWS (M4x10) to the POWER SUPPLY COVER.

## DFT JUMPER

This JUMPER terminates the WIRING HARNESS to the DFT. It simulates a closed DARK-ROOM FEED TRAY. The SBS is delivered with this JUMPER. If a DFT is to be installed, this JUMPER is replaced with the SOCKET from the DFT cable. If no DFT is installed AND if this JUMPER is missing, the SBS BUZZER will sound permanently.

## BRIGHTNESS CONTROL PCB

### NOTE

Install this PCB only if the SBS is used with a DFT

This PCB allows to control the brightness of the DFT INDICATOR LED in the DARKROOM. To install it, take off CONNECTOR A4X30, plug in the CONNECTOR of the BRIGHTNESS CONTROL PCB instead and plug in the CONNECTOR A4X30 to the SOCKET on the BRIGHTNESS CONTROL PCB. See the layout of PCB A4 on the next page.

Connect the BRIGHTNESS CONTROL PCB here

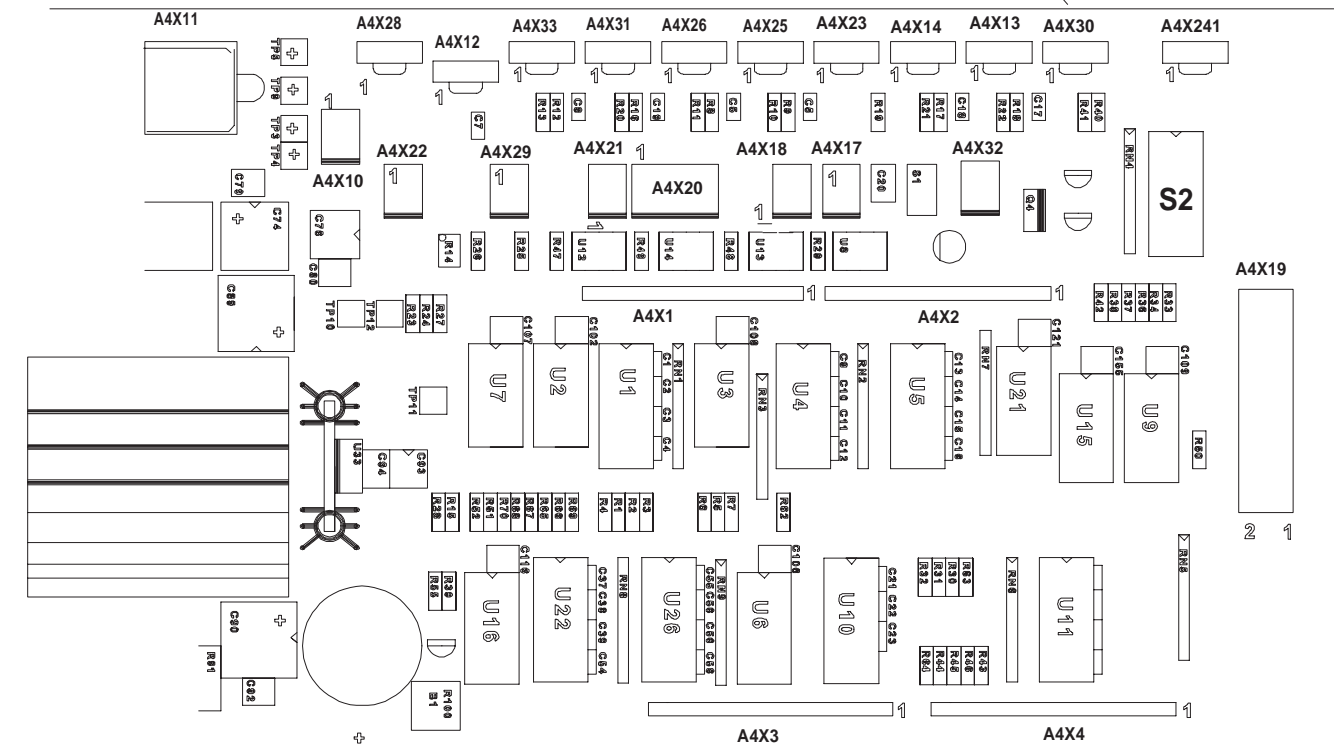


figure 5-5



## 6. PREPARATION OF THE ML700

### SOFTWARE

Only a software version => 4.0 is able to communicate with the SBS. If the ML700 is equipped with an older version, install the new one now. The new software is part of the INSTALLATION KIT .

#### NOTE

After the new ML700 SOFTWARE is installed, it might be that confusing data are shown on the ML700 DISPLAY. In this case, move the SERVICE SWITCH on PCB A0 to the right, enter the SERVICE MODE and clear all memories. Exit the SERVICE MODE and press several times the RESET BUTTON on PCB A0. Then move the SERVICE SWITCH back to the left.

#### CAUTION

TAKE PROPER ESD SAFETY MEASURES.

### HARDWARE

1. The TUNNEL CONNECTOR must be relocated. Take out the 2 CONNECTOR MOUNTING SCREWS and discard them.

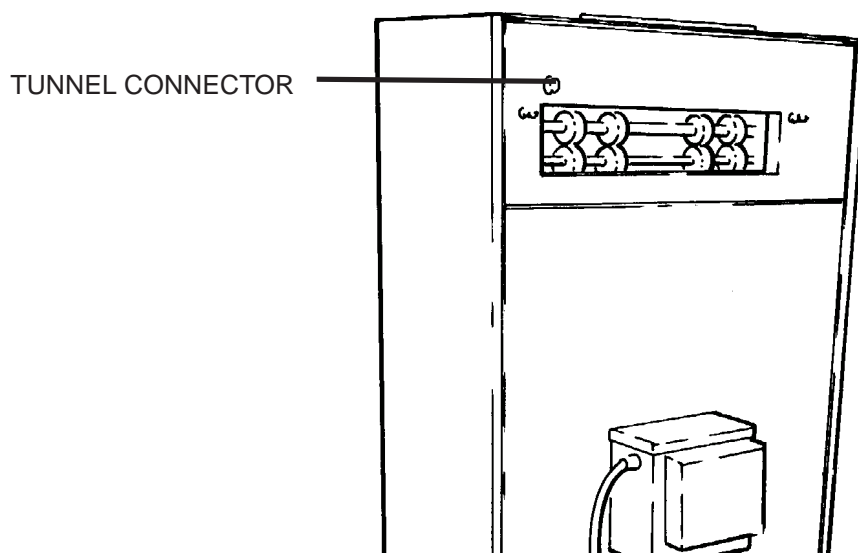


figure 6-1

2. Connect the new ADAPTER CABLE (CABLE TUNNEL SENSOR short) to the CONNECTOR.

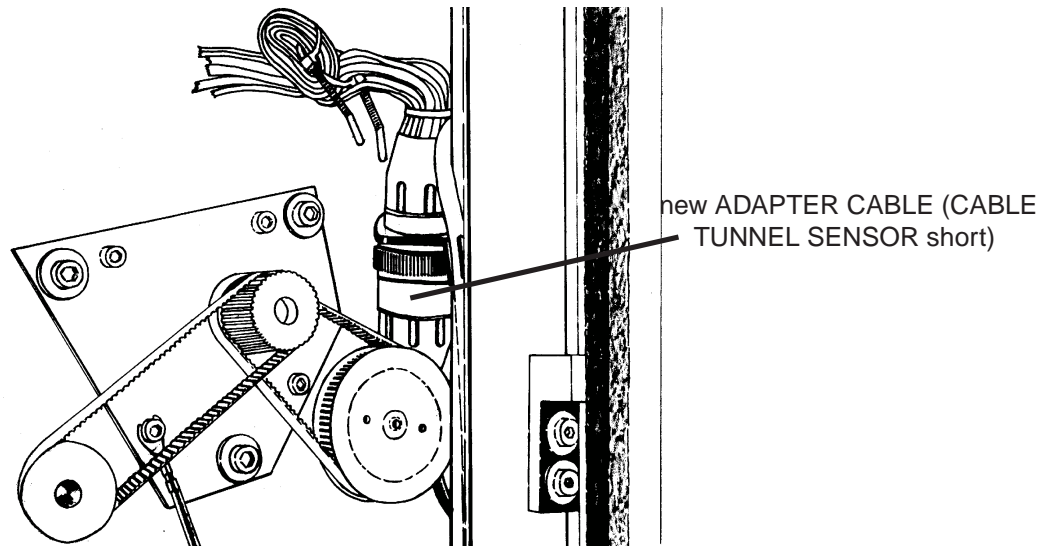


figure 6-2

3. Fix the CONNECTOR and HARNESS with WIRE TIES so that they cannot be caught by moving parts.
4. Route the new ADAPTER CABLE out of the ML700.

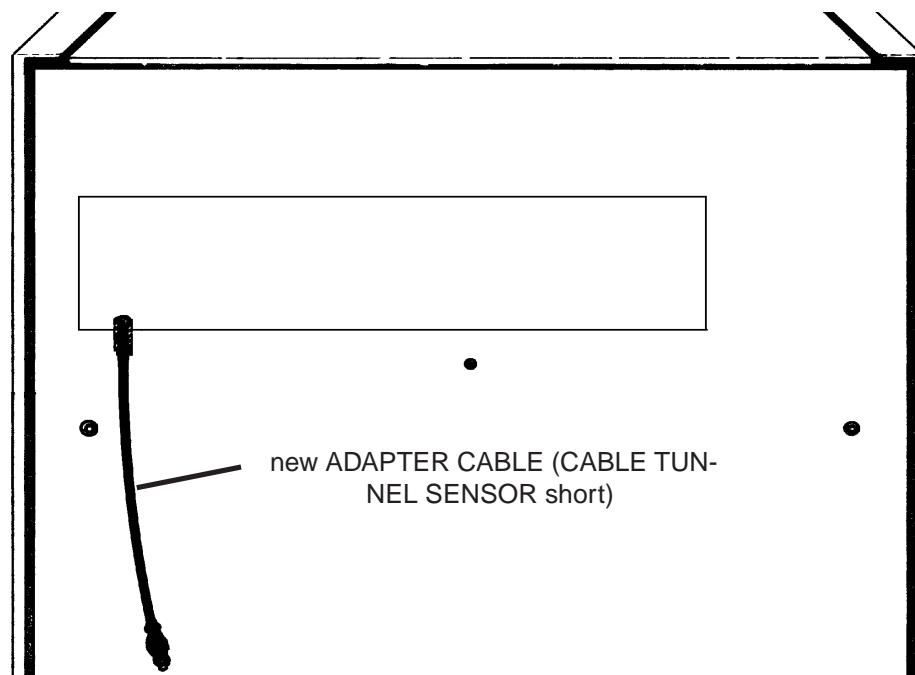


figure 6-3

5. Take out both TUNNEL MOUNTING BOLTS (left and right) and discard them.

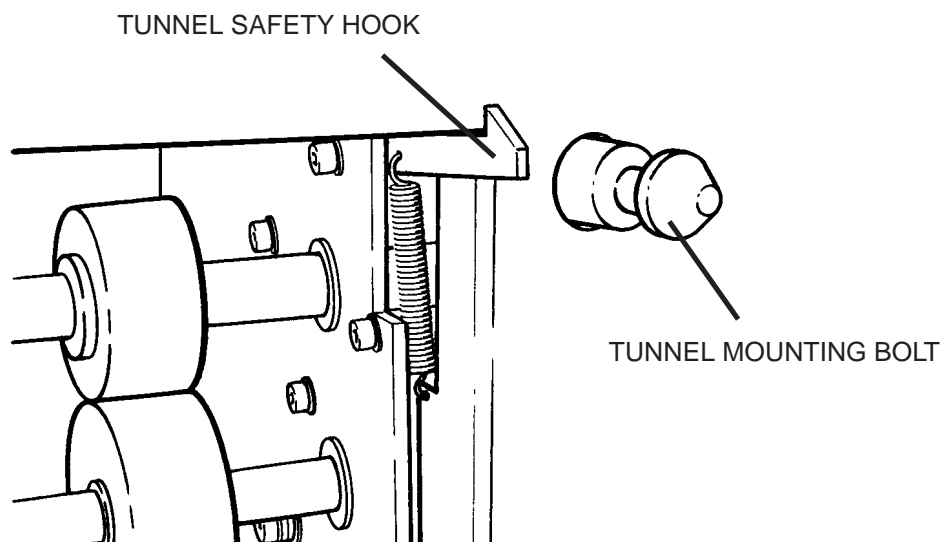


figure 6-4

6. MOUNT the SBS-PLATE to the ML700 (use ALLEN HEAD SCREWS M4x16 from the SBS INSTALLATION KIT). It is not necessary to take off the TUNNEL HOOK (see figure above), just move it down when you mount the SBS-PLATE. Ensure that the new ADAPTER CABLE is located within the little CABLE DUCT of the SBS-PLATE.

### NOTE

There must be a SPACER on either side between plate and ML700.

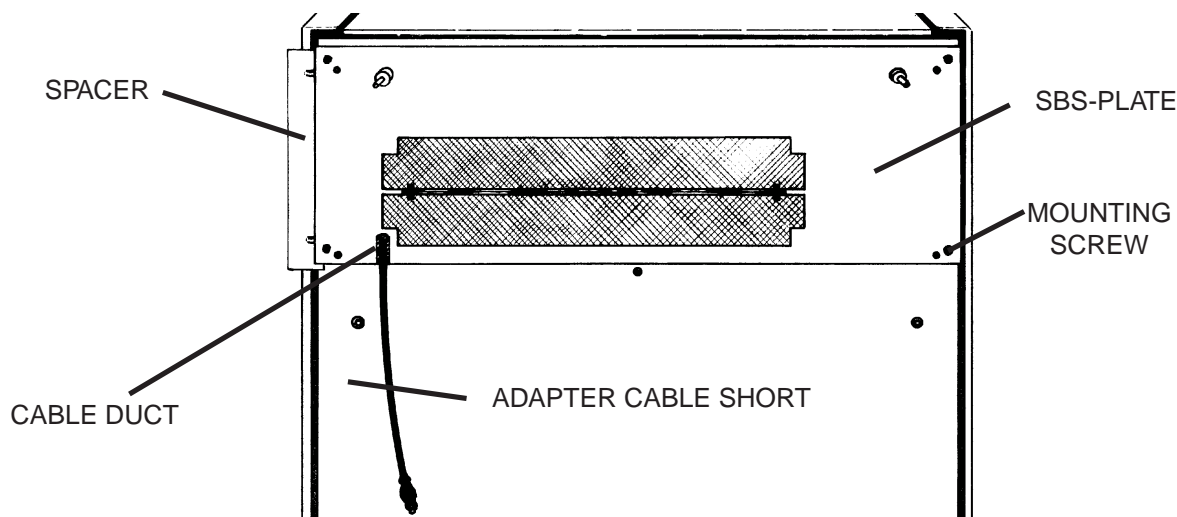


figure 6-5

7. Adjust the 2 FILM GUIDES up or down, so that a FILM from the ML700 CONVEYER is not obstructed.

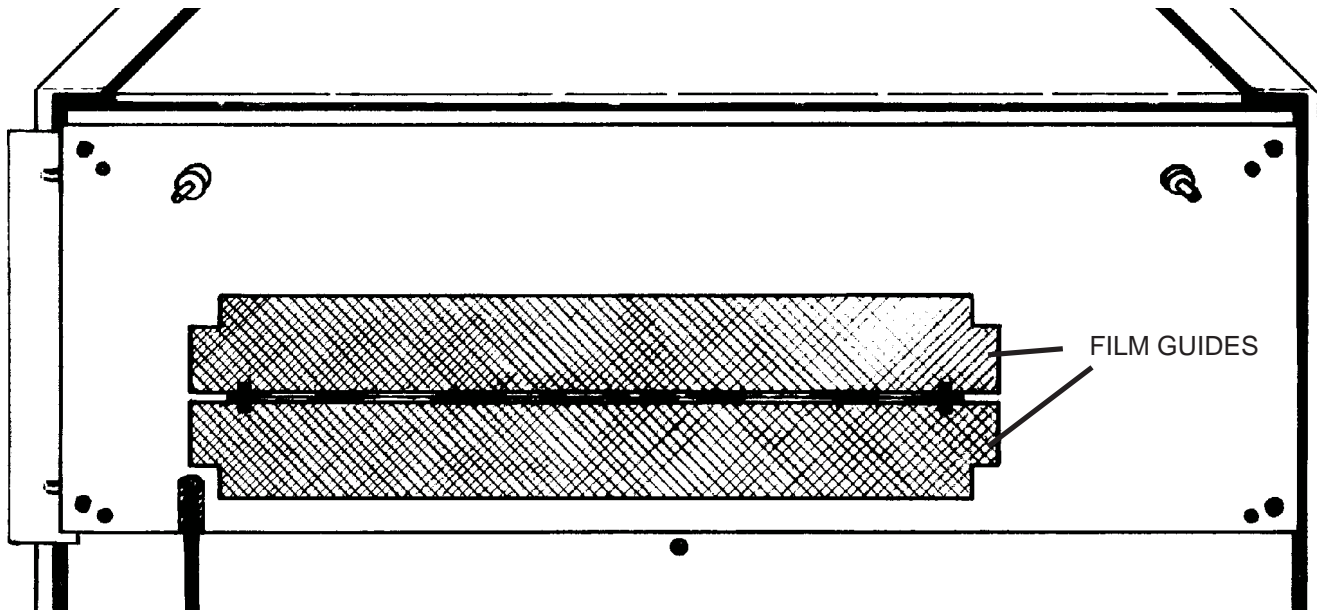


figure 6-6

8. To avoid flooding of the ML700 install the Y-ADAPTER 9170871 to the HUMIDIFIER DRAIN. Flooding can be caused by long or kinked DRAIN HOSES. The HUMIDIFIER DRAIN HOSE should always be connected to an open DRAIN. Otherwise the drain of an other UNIT (for example of the processor) may back up and causes flooding of the ML700.

**NOTE**

Extend WATER and DRAIN HOSE with extention and clamps provided with the INSTALLATION KIT. This allows the ML700 to be pulled forward without damaging the hoses. Do not kink the DRAIN HOSE!

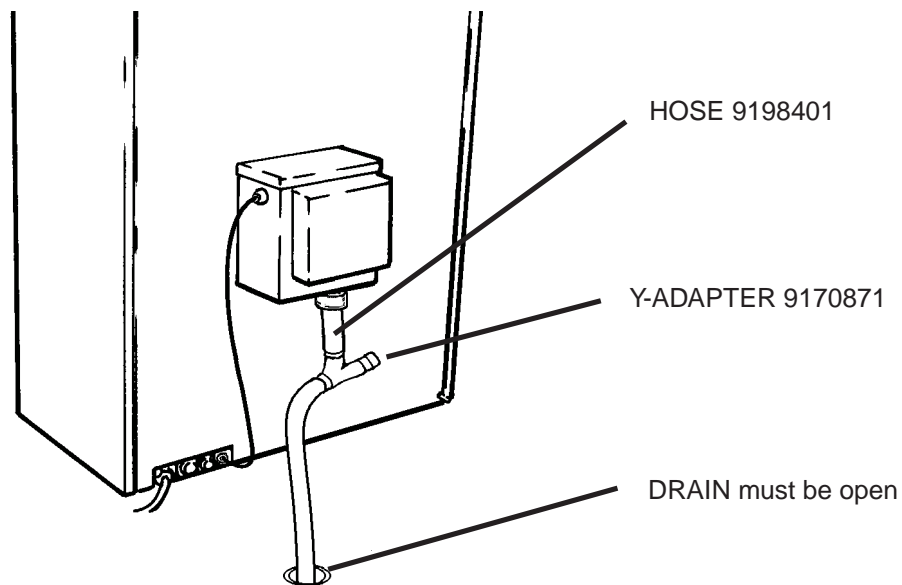


figure 6-7



## 7. PROCESSOR SET-UP

### CAUTION

CHECK THAT THERE IS REALLY 120 VAC AT THE SAFE LIGHT RECEPTACLE.

### 460/480RA PROCESSOR

The SAFE LIGHT RECEPTACLE must provide 120 VAC as long as the PROCESSOR is switched on. This can be selected via the PROCESSOR OPERATOR KEYBOARD.

### NOTE

The 460/480 CONTROL PANEL/DISPLAY should be actuated as follows in order to be certain that the "ACCESSORY MODE" is used.

1. Press "GO TO SETUP" when the 480 DISPLAY shows "READY" in the upper left corner. The DISPLAY will then show:

*PROCESSOR NOT READY*  
*ENTER ACCESS CODE OR CANCEL REQUEST*

1	2	3	4	CANCEL
				REQUEST

2. Enter the ACCESS CODE 4-2-1-3. The DISPLAY will show:

*PROCESSOR NOT READY*  
*PRESS BUTTON TO SELECT*

	SETUP			
CYCLE	PROC-	OPT.	LANG	DONE/
	ESS			RETURN

3. Press "OPTIONS". The DISPLAY will show:

*PROCESSOR NOT READY*  
*PRESS BUTTON TO SELECT*

REPLEN	TEMP	DISPLAY	MORE	DONE/
MODE	LOCK	UNITS		RETURN

4. Press "MORE". The DISPLAY will show:

*PROCESSOR NOT READY  
PRESS BUTTON TO SELECT*

*STAND-  
RECEPT BY REPLEN MORE DONE/  
MODE MODE CALIB RETURN*

5. Press "RECEPT MODE". The DISPLAY will show:

*PROCESSOR NOT READY  
RECEPTACLE MODE IS SAFELIGHT*

*SELECT SELECT DONE/  
SAFE ACCY RETURN*

6. Press "SELECT ACCY". The DISPLAY will show:

*PROCESSOR NOT READY  
RECEPTACLE MODE IS ACCESSORY*

*SELECT SELECT DONE/  
SAFE ACCY RETURN*

7. Press "DONE/RETURN" until the DISPLAY shows "PROCESSOR READY" in the upper left corner.

## 460/480 RA PROCESSOR RS 232 CONNECTOR

### NOTE

This procedure is needed if the RS 232 CONNECTOR on the SBS-CABLE does not fit properly into the RS 232 CONNECTOR on the CONTROL PANEL.

1. Turn off MAIN POWER.
2. Remove and retain the 2 STANDOFFS from the RS 232 CONNECTOR on the CONTROL PANEL.
3. Remove and retain the 4 SCREWS securing the CONTROL PANEL to the PROCESSOR.

4. Pull the CONTROL PANEL away from the front of the PROCESSOR.
5. From the rear of the CONTROL PANEL, remove and retain the 2 small SCREWS securing the 200 BOARD.
6. Remove and retain the LOCKNUT and WASHER from the PHONO JACK CONNECTOR.
7. Remove the PLATE from the back of the CONTROL PANEL.
8. Reassemble the parts removed in STEPS 2 through 6.
9. Install the RS 232 CABLE from the SBS to the RS 232 CONNECTOR on the CONTROL PANEL to check for the proper fit. Check for fit both with and without the CABLE locked into the STANDOFFS.

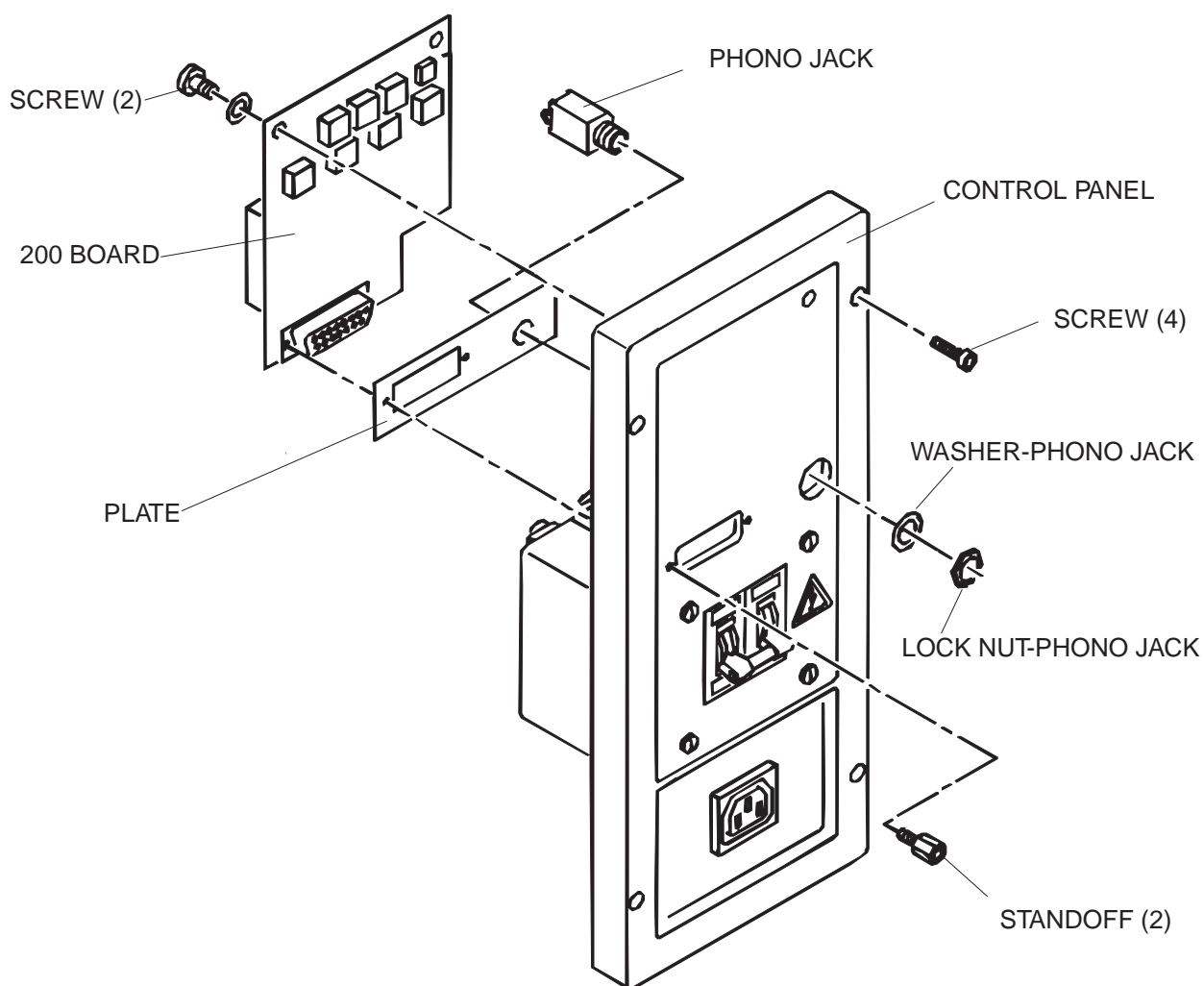


figure 7-1

## M6B PROCESSOR

### SAFELIGHT RECEPTACLE

1. Rewire the SAFELIGHT RECEPTACLE, so that it provides 120 VAC as long as the PROCESSOR is switched on.

### WARNING

**BEFORE YOU REWIRE THE SAFELIGHT RECEPTACLE ENSURE THAT THE M6B PROCESSOR IS NOT CONNECTED TO THE MAINS TO AVOID AN ELECTRICAL SHOCK.**

2. Remove the RECEIVING BIN PANEL off the M6B.

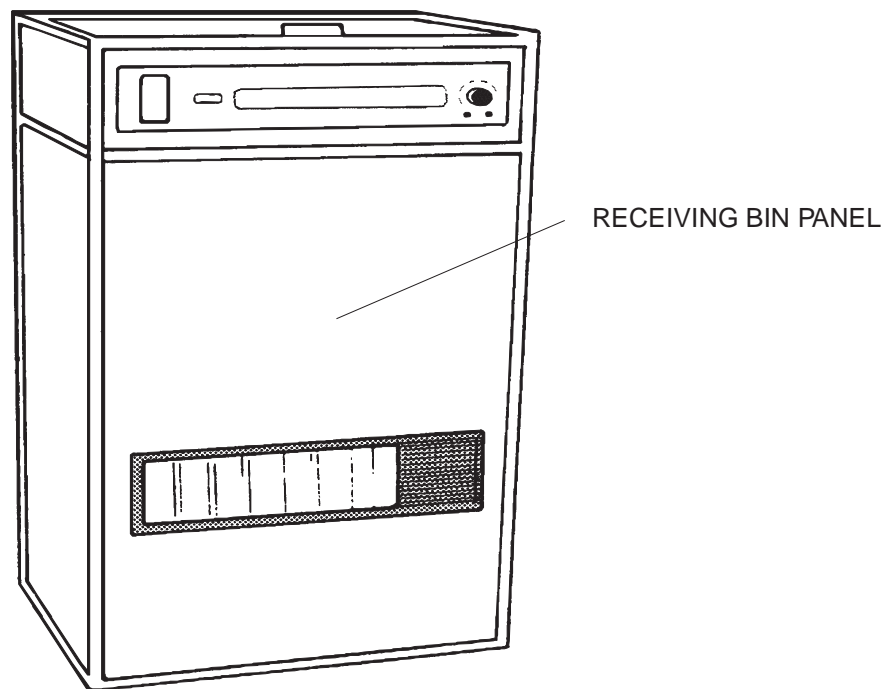


figure 7-2

3. Open the COVER of the ELECTRICAL BOX.

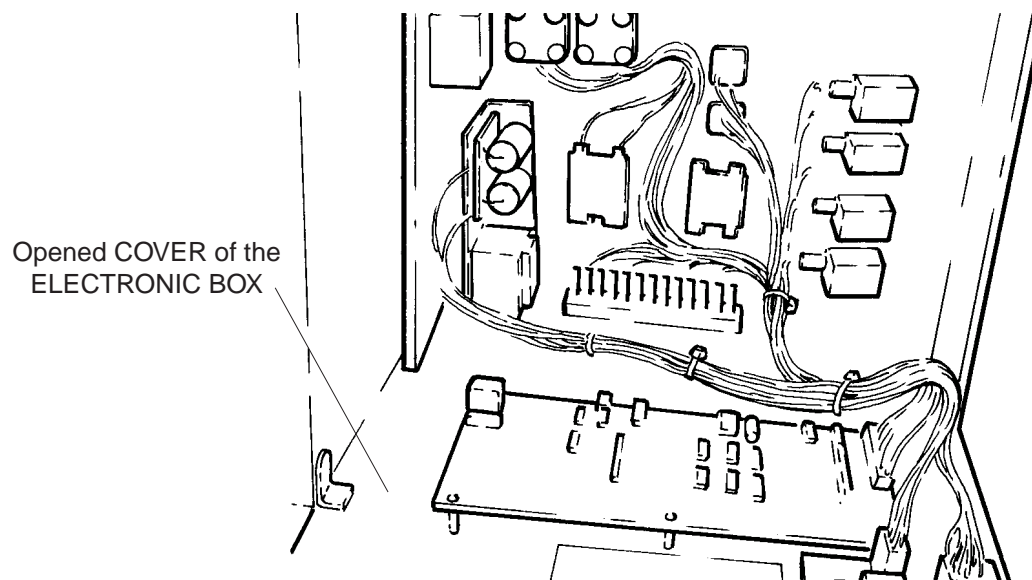


figure 7-3

4. Contact 9-6 of Relay K3 has to be jumpered so that there is 120 VAC at the SAFELIGHT RECEPTACLE as long as the M6B is switched on. See figure 7-4 and 7-5.

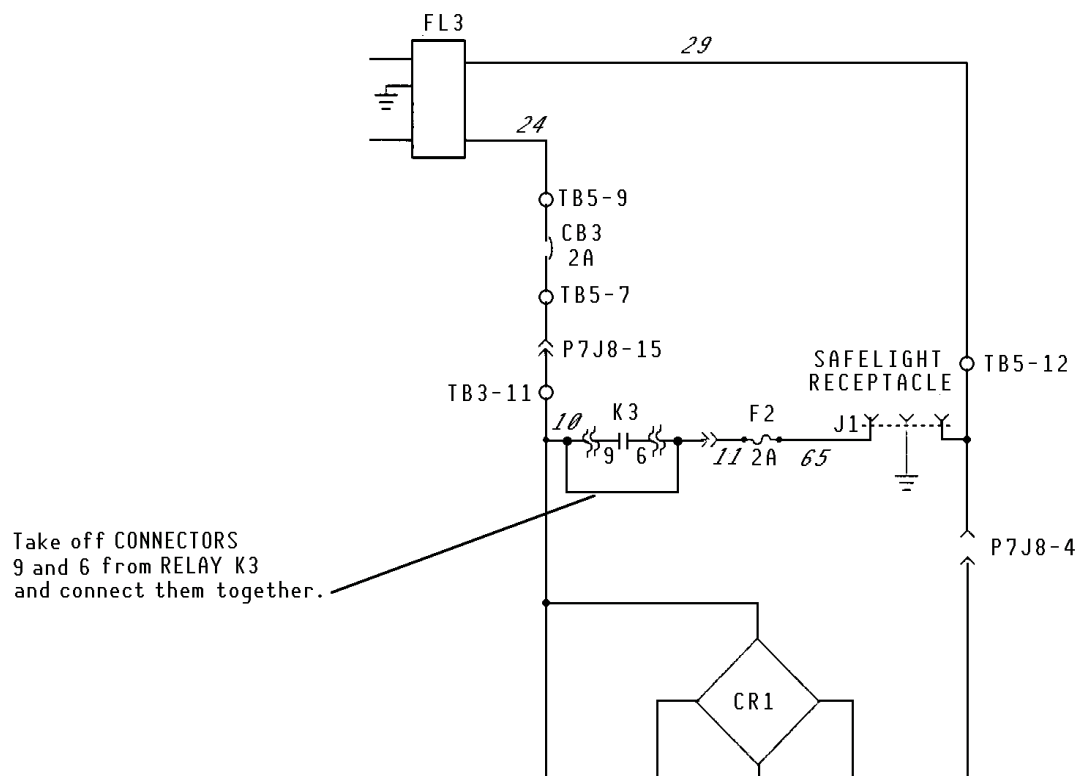


figure 7-4

- 4a.** Take WIRES 10 and 11 off from RELAY K3.
- 4b.** Place the AMP-Y CONNECTOR from the INSTALLATION KIT onto PIN 6 of RELAY K3.
- 4c.** Place WIRES 10 and 11 onto the open ends of the AMP-Y CONNECTOR.
- 4d.** Place the INSULATED AMP CONNECTOR from the INSTALLATION KIT onto PIN 9 of RELAY K3. This is a safety precaution, that PIN 9, still connected to 120VAC, cannot be touched.
- 4e.** Place a WIRE TIE around WIRES 10 and 11 just behind the 2 AMP CONNECTORS.
- 4f.** Fix WIRES 10 and 11 with an additional WIRE TIE to the existing harness.

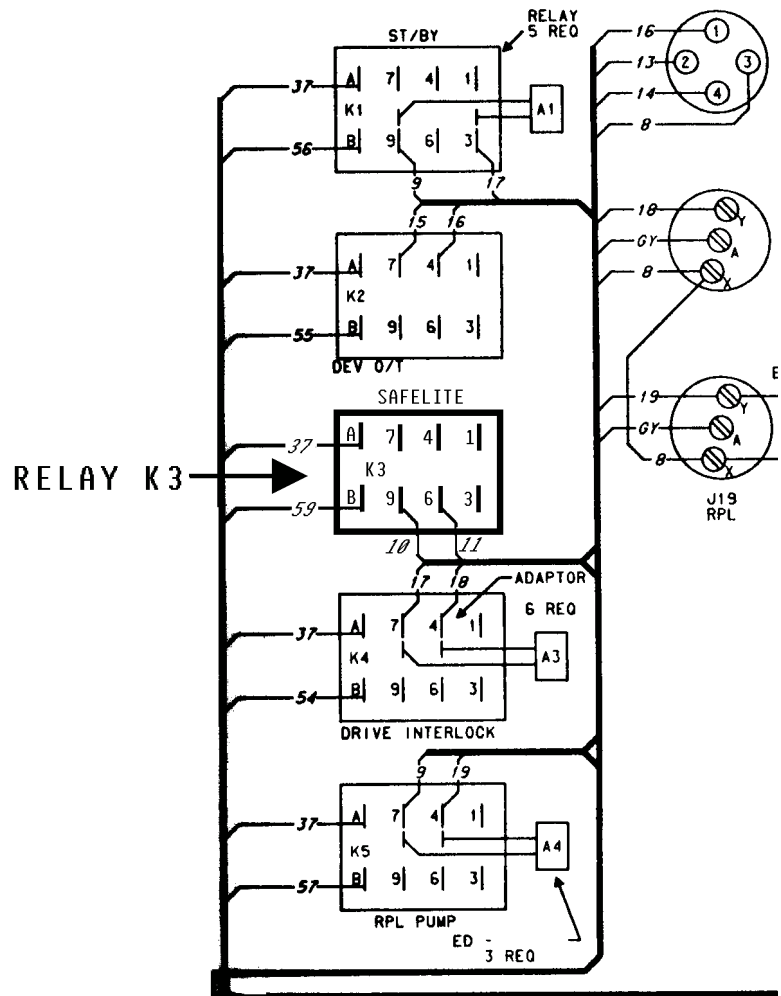


figure 7-5

## PROCESSOR START SIGNAL

The PROCESSOR START SIGNAL to the M6B comes from CONNECTOR A4X17 on PCB A4 (SBS). Ensure that PIN 2 of this CONNECTOR receives +9 Volts from the M6B. If +9 Volts are applied to PIN 1 of this CONNECTOR, the OPTOCOUPLER U8 on PCB A4 (SBS) would not generate the PROCESSOR START SIGNAL.

## PROCESSOR REMOTE ON/OFF 480RA

If the ML700 is to the right of the 480RA PROCESSOR, the PROCESSOR MAIN SWITCH cannot be reached. To overcome this the REMOTE ACCESS has to be installed.

### NOTE

The PROCESSOR ON/OFF can only be operated after the PROCESSOR ADAPTER COVER is taken off.

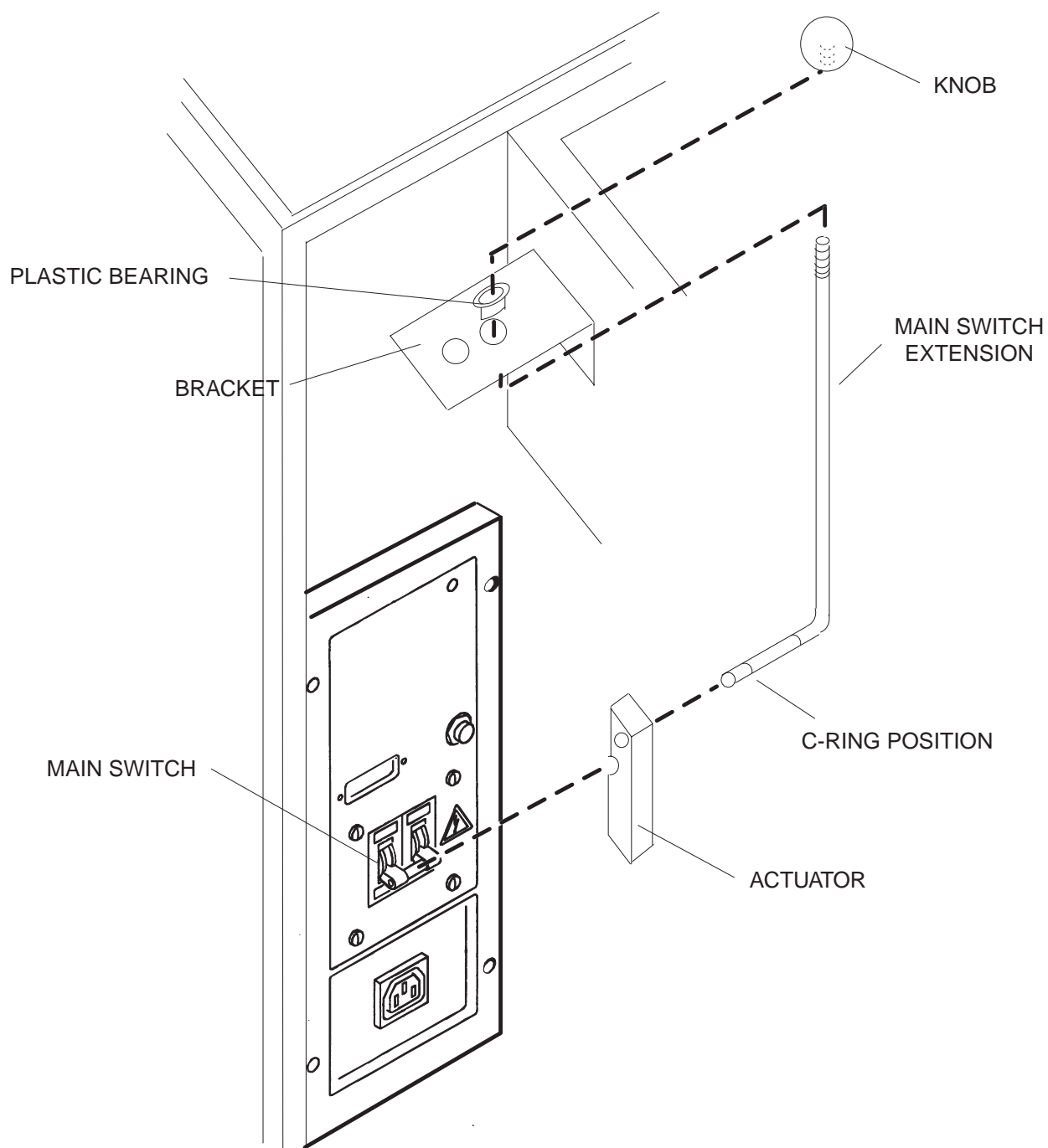


figure 7-6

- 1.** Insert the PLASTIC BEARING into the BRACKET. Use the right-hand hole.
- 2.** Feed the MAIN SWITCH EXTENSION from underneath through the PLASTIC BEARING.
- 3.** Screw the KNOB onto the MAIN SWITCH EXTENSION.
- 4.** Slide the ACTUATOR on the short arm of the MAIN SWITCH EXTENSION.
- 5.** Secure the ACTUATOR with 1 C-RING at the indicated C-RING POSITION, that it cannot slide off.
- 6.** Engage the ACTUATOR with the horizontal part of the PROCESSOR MAIN SWITCH.
- 7.** Gently pull up the KNOB to test if the MAIN SWITCH is actuated.
- 8.** Gently press down the KNOB to switch off the PROCESSOR MAIN SWITCH.



## PROCESSOR REMOTE ON/OFF M6B up to SN 20000

If the ML700 is to the right of the M6B PROCESSOR, the PROCESSOR MAIN SWITCH cannot be reached. To overcome this the REMOTE ACCESS has to be installed.

### NOTE

The PROCESSOR ON/OFF can only be operated after the PROCESSOR ADAPTER COVER is taken off.

1. Take out both SCREWS of the MAIN SWITCH PROTECTIVE COVER.
2. With a pair of PLIERS bend the PROTECTIVE COVER up and down until it breaks off.

### NOTE

Do not damage the MAIN SWITCH.

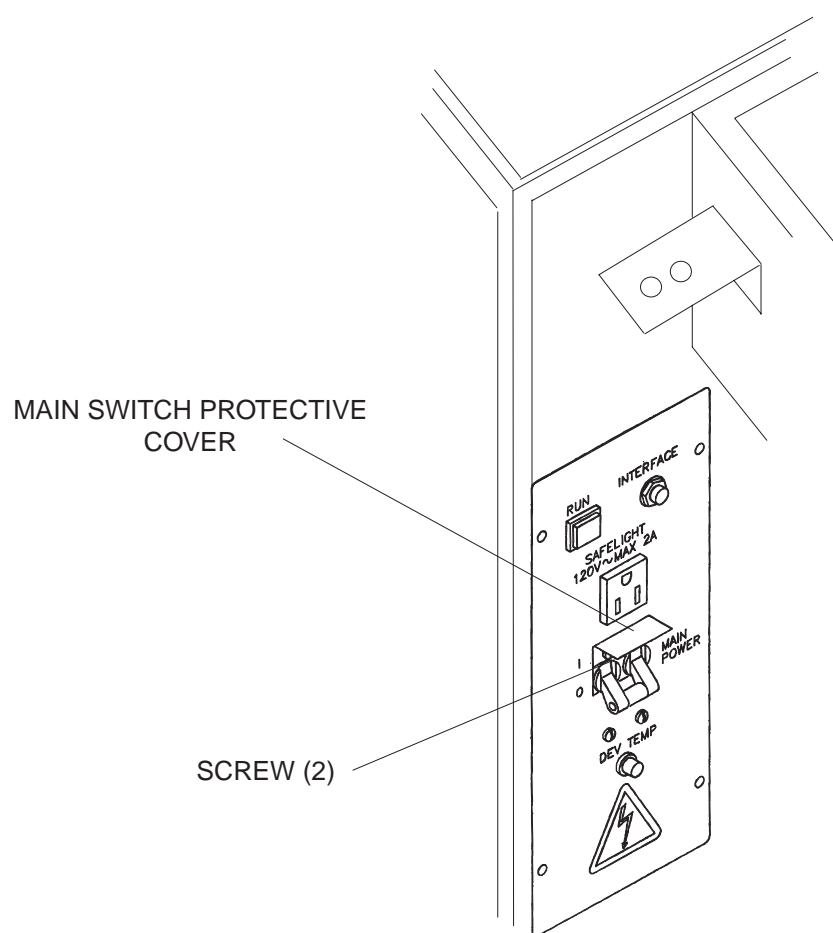


figure 7-7

3. Mount the COVER PLATE (packed with the INSTALLATION KIT) with the 2 SCREWS removed in step 1.

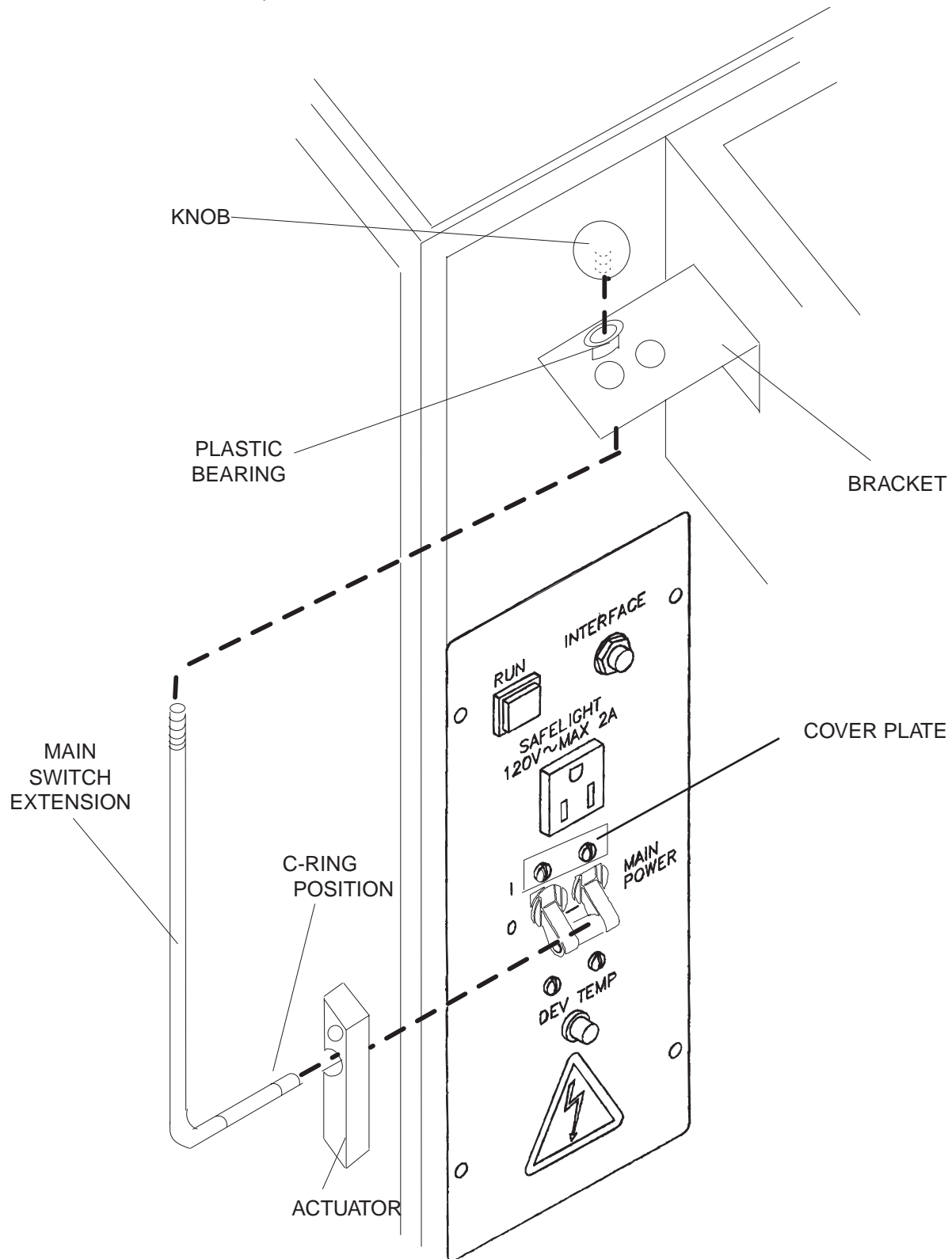


figure 7-8

- 4.** Insert the PLASTIC BEARING into the BRACKET. Use the left-hand hole.
- 5.** Feed the MAIN SWITCH EXTENSION from underneath through the PLASTIC BEARING.
- 6.** Screw the KNOB onto the MAIN SWITCH EXTENSION.
- 7.** Slide the ACTUATOR on the short arm of the MAIN SWITCH EXTENSION.
- 8.** Secure the ACTUATOR with 1 C-RING at the indicated C-RING POSITION, that it cannot slide off.
- 9.** Engage the ACTUATOR with the horizontal part of the PROCESSOR MAIN SWITCH.
- 10.** Gently pull up the KNOB to test if the MAIN SWITCH is actuated.
- 11.** Gently press down the KNOB to switch off the PROCESSOR MAIN SWITCH.

## PROCESSOR REMOTE ON/OFF M6B from SN 20000

If the ML700 is to the right of the M6B PROCESSOR, the PROCESSOR MAIN SWITCH cannot be reached. To overcome this the REMOTE ACCESS has to be installed.

### NOTE

The PROCESSOR ON/OFF can only be operated after the PROCESSOR ADAPTER COVER is taken off.

1. Take out both SCREWS of the MAIN SWITCH PROTECTIVE COVER.
2. With a pair of PLIERS bend the PROTECTIVE COVER up and down until it breaks off.

### NOTE

Do not damage the MAIN SWITCH.

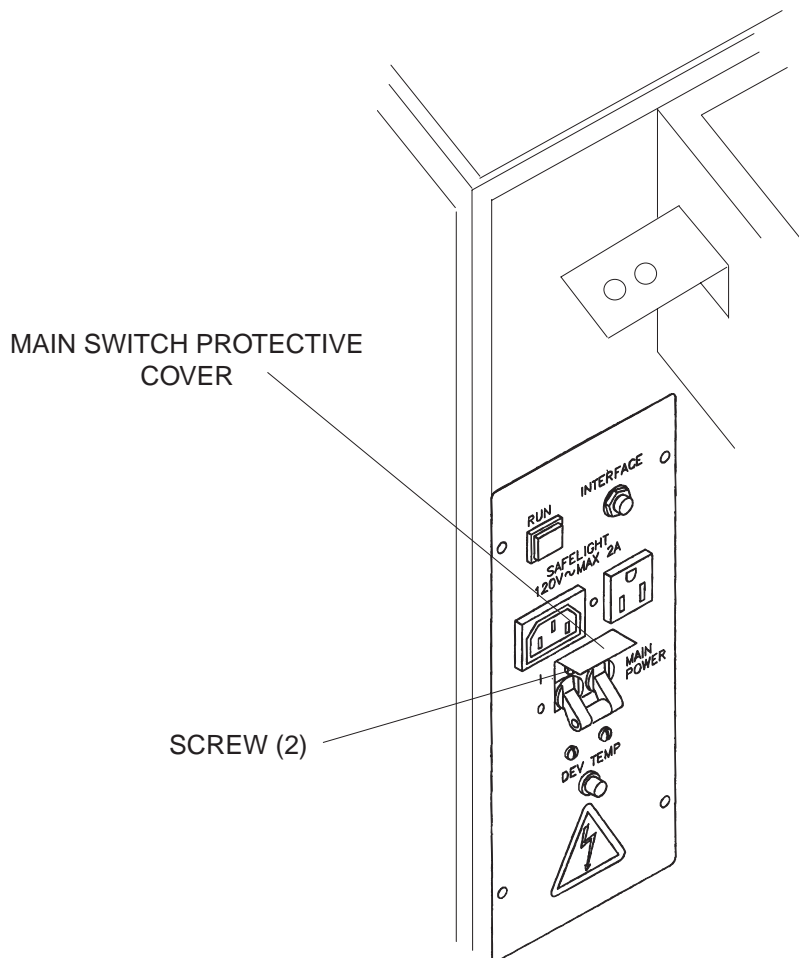


figure 7-9

3. Mount the COVER PLATE (packed with the INSTALLATION KIT) with the 2 SCREWS removed in step 1.

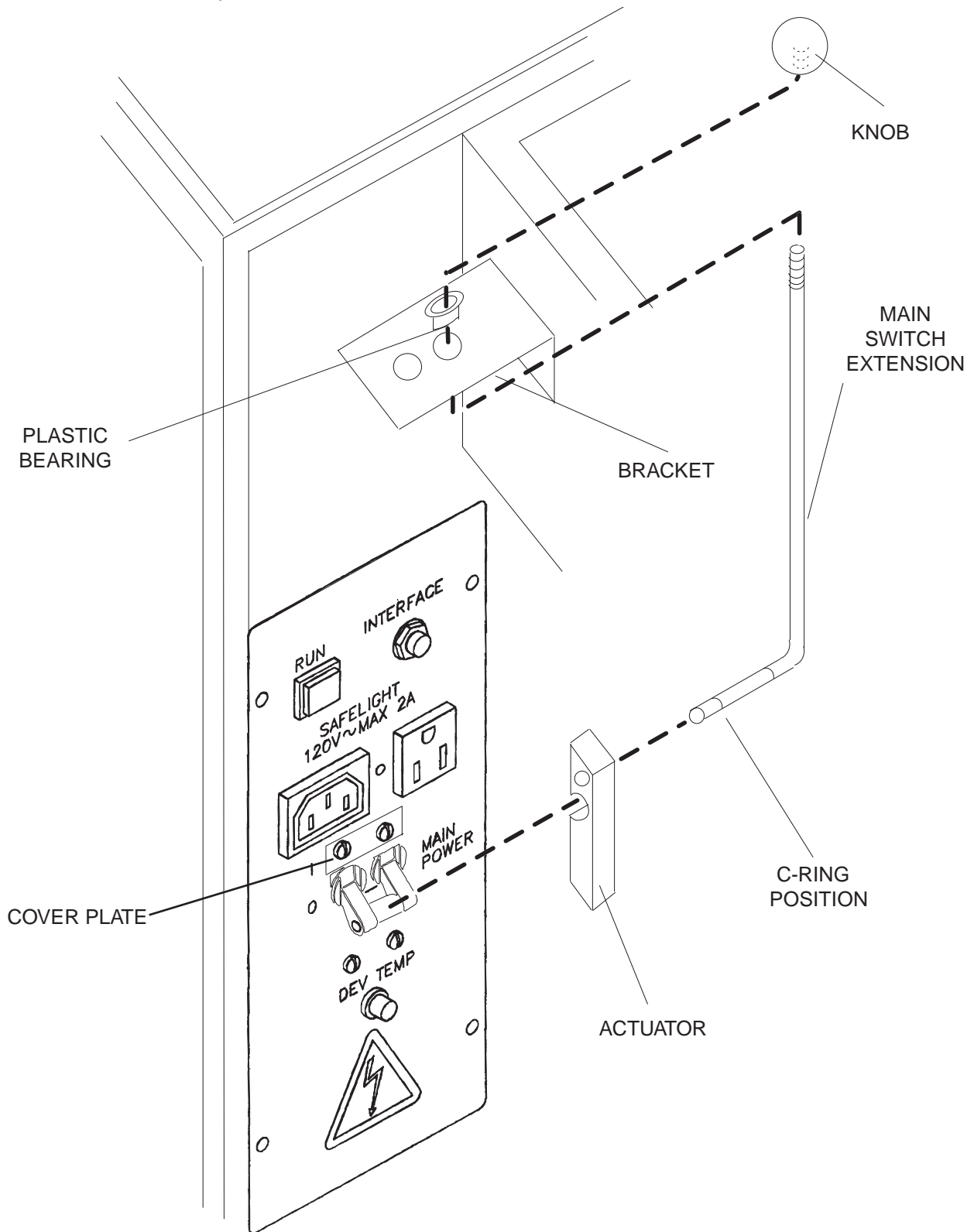


figure 7-10

- 4.** Insert the PLASTIC BEARING into the BRACKET. Use the right-hand hole.
- 5.** Feed the MAIN SWITCH EXTENSION from underneath through the PLASTIC BEARING.
- 6.** Screw the KNOB onto the MAIN SWITCH EXTENSION.
- 7.** Slide the ACTUATOR on the short arm of the MAIN SWITCH EXTENSION.
- 8.** Secure the ACTUATOR with 1 C-RING at the indicated C-RING POSITION, that it cannot slide off.
- 9.** Engage the ACTUATOR with the horizontal part of the PROCESSOR MAIN SWITCH.
- 10.** Gently pull up the KNOB to test if the MAIN SWITCH is actuated.
- 11.** Gently press down the KNOB to switch off the PROCESSOR MAIN SWITCH.

## **5000 RA PROCESSOR**

### **PROCESSOR REMOTE ON/OFF**

There is no PROCESSOR REMOTE ON/OFF!

### **PROCESSOR SET-UP 5000RA**

#### **CAUTION**

**CHECK THAT THERE IS REALLY 120 VAC AT THE SAFE LIGHT RECEPTACLE.**

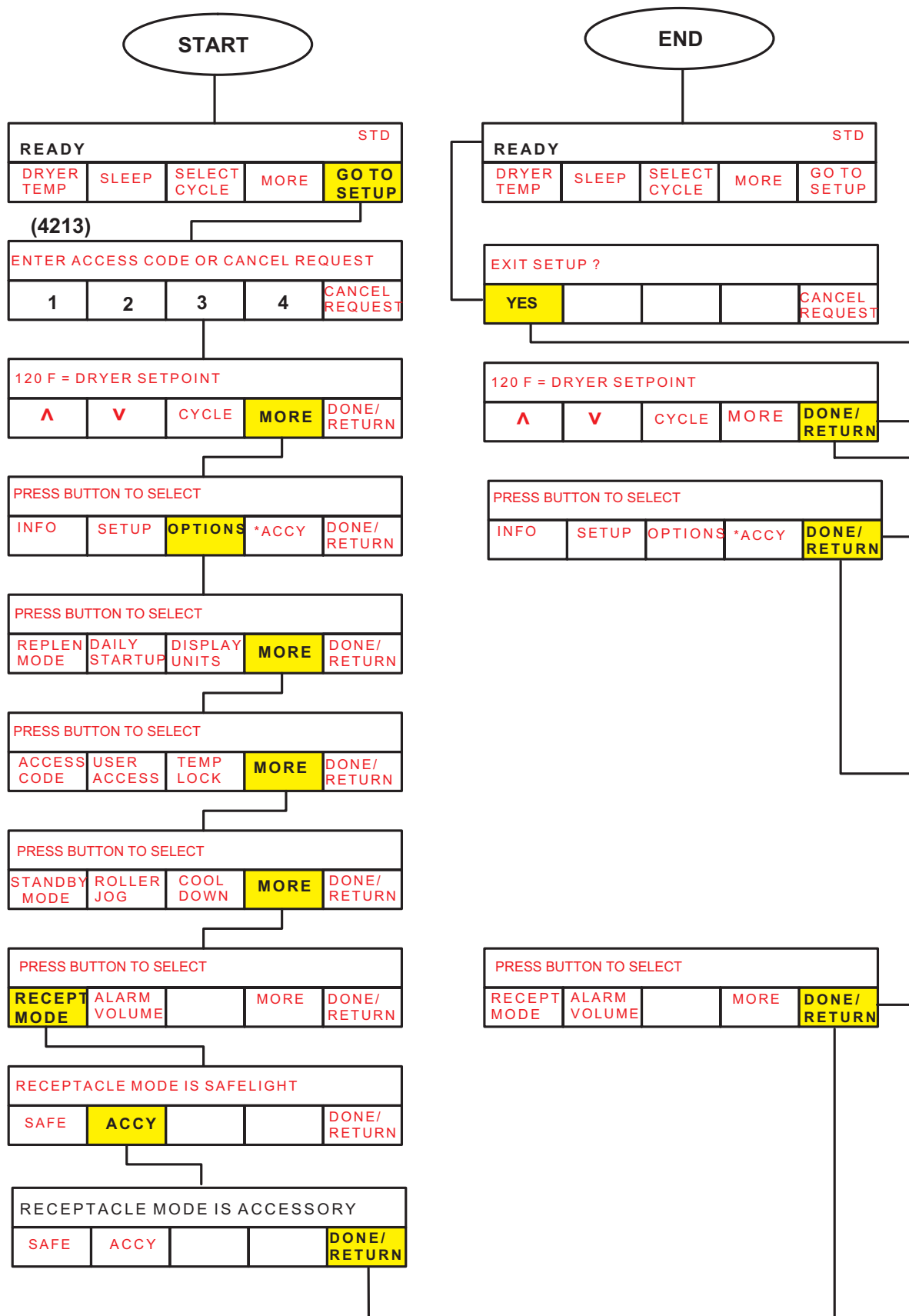
The SAFE LIGHT RECEPTACLE must provide 120 VAC as long as the PROCESSOR is switched on. This can be selected via the PROCESSOR OPERATOR KEYBOARD.

The 5000RA CONTROL PANEL/DISPLAY should be actuated as shown in the FLOW CHART on the next page in order to be certain that the "ACCESSORY MODE" is used.

#### **NOTE**

Press the highlighted buttons only!

This FLOW CHART represents software version 2.11 of the PROCESSOR 5000RA.







## 8. SYSTEM ASSEMBLY

1. If a DARK ROOM FEED TRAY is to be used, mount the wooden WALL PLATE now to the wall. The purpose of this WALL PLATE is to make the wall cut-out around the DFT light tight. Attach the provided foam coated SEAL PLATE to the wooden WALL PLATE. The purpose of this plate is to route the hoses from the PROCESSOR into the DARK ROOM. **Only a AIR EXHAUST HOSE with 70 mm diameter can be fed through the SEAL PLATE!**

### NOTE

This SEAL PLATE is provided by the factory. The wooden WALL PLATE is not provided by the factory. The customer premises are unknown to the factory therefore this WALL PLATE cannot be provided.

2. If no DFT is used, close the DFT OPENING at the rear of the SBS. Use the large and the small ADHESIVE BACK DFT COVER.

Place the large ADHESIVE COVER from the outside and the small ADHESIVE COVER from the inside over the DFT OPENING

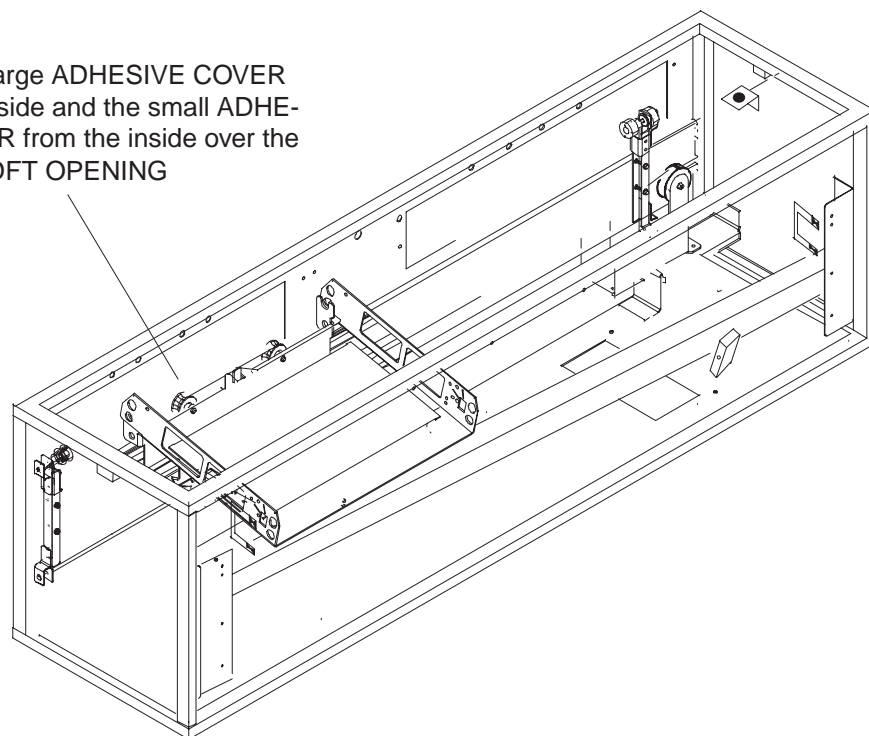


figure 8-1

3. Move the SBS to its final position.

### NOTE

If a DFT is to be used, Route the RED/GREEN LED BOX through the wall opening first. Use care to prevent the wires from breaking as long as the LED BOX is not fixed to the wall.

4. Carefully move the PROCESSOR to the SBS.
5. Adjust the height of the PROCESSOR to 1255 mm. Do the necessary corrections with the adjustable LEVELLING FEET of the PROCESSOR.
6. Check that the BOLTS of the PROCESSOR ADAPTER are level with the MOUNTING HOLES of the SBS. Do the necessary corrections with the adjustable LEVELLING FEET of the SBS.

### NOTE

Ensure that SBS and PROCESSOR are levelled.

7. Move the PROCESSOR fully to the SBS. Ensure that the ADAPTER CABLES are inside the SBS and not between SBS and ADAPTER.
8. Fasten the SBS to the ADAPTER. Use 2 large WASHERS and 2 NUTS. Then insert the 2 MOUNTING SCREWS and tighten them.

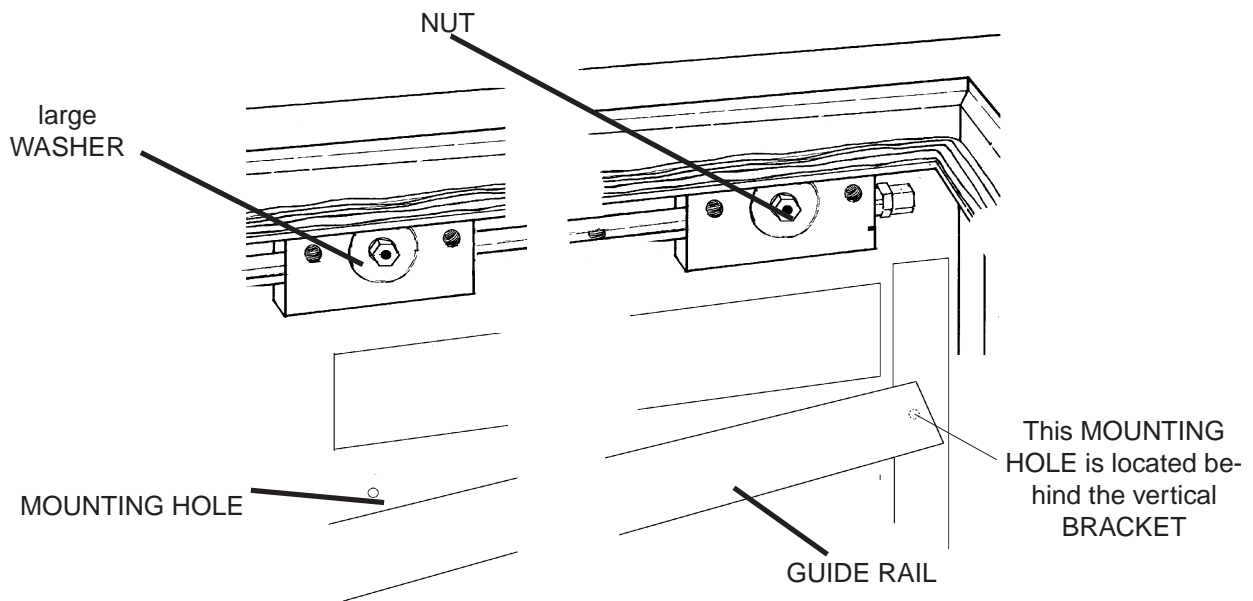


figure 8-2

9. Insert the SBS CARRIAGE. See the drawing on the next page.
10. Move the ML700 to the SBS.

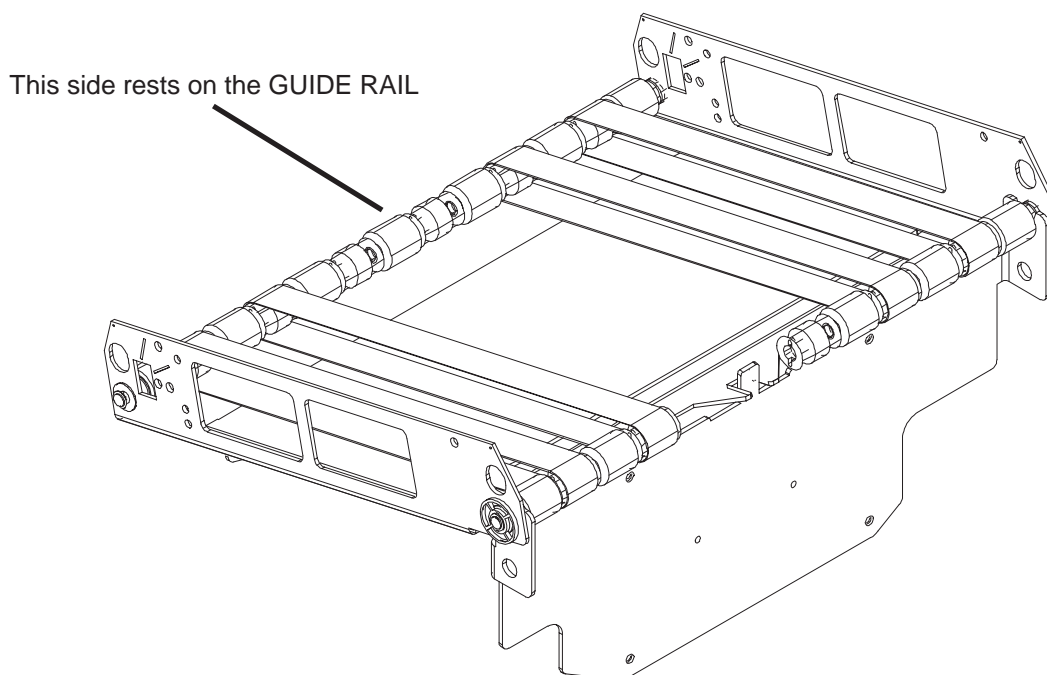


figure 8-3

- 11.** Check that the 2 ML700 MOUNTING BOLTS are level with the 2 SBS MOUNTING HOLES. Do the necessary corrections with the ML700 CASTERS. The height of the ML700 should be 1255 mm like the PROCESSOR.
- 12.** Adjust the ML700 CASTERS until the ML700 can be docked and undocked to/from the SBS easily.
- 13.** Turn the SBS-LOCKING SHAFT until the gap between ML700 and SBS is smallest. The SHAFT has holes to insert the HANDLE which is packed with the SBS INSTALLATION KIT. Store this TOOL inside the SBS.

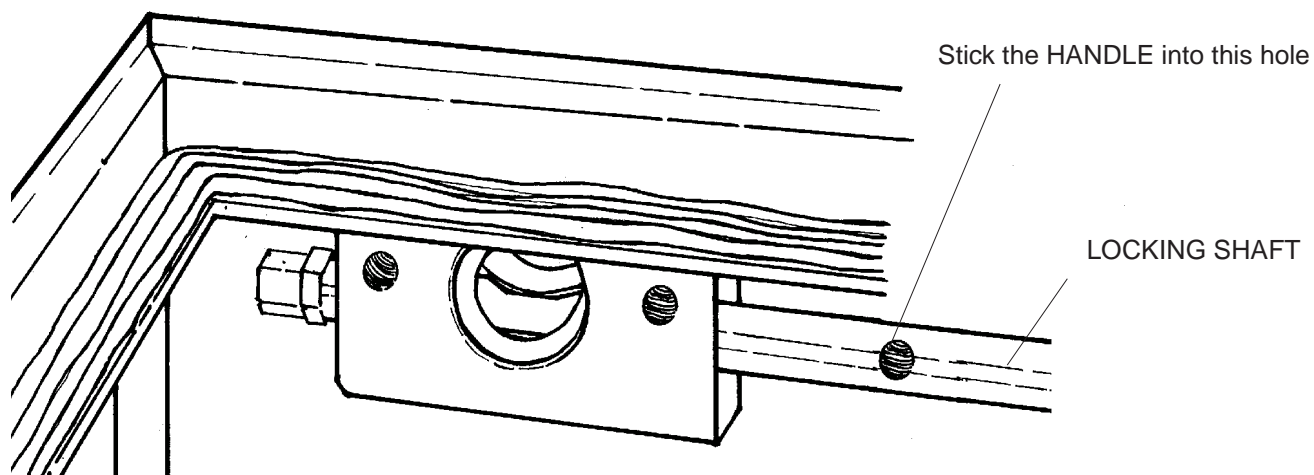


figure 8-4

**14.** Connect the CABLES from the SBS to the ML700 and to the PROCESSOR.

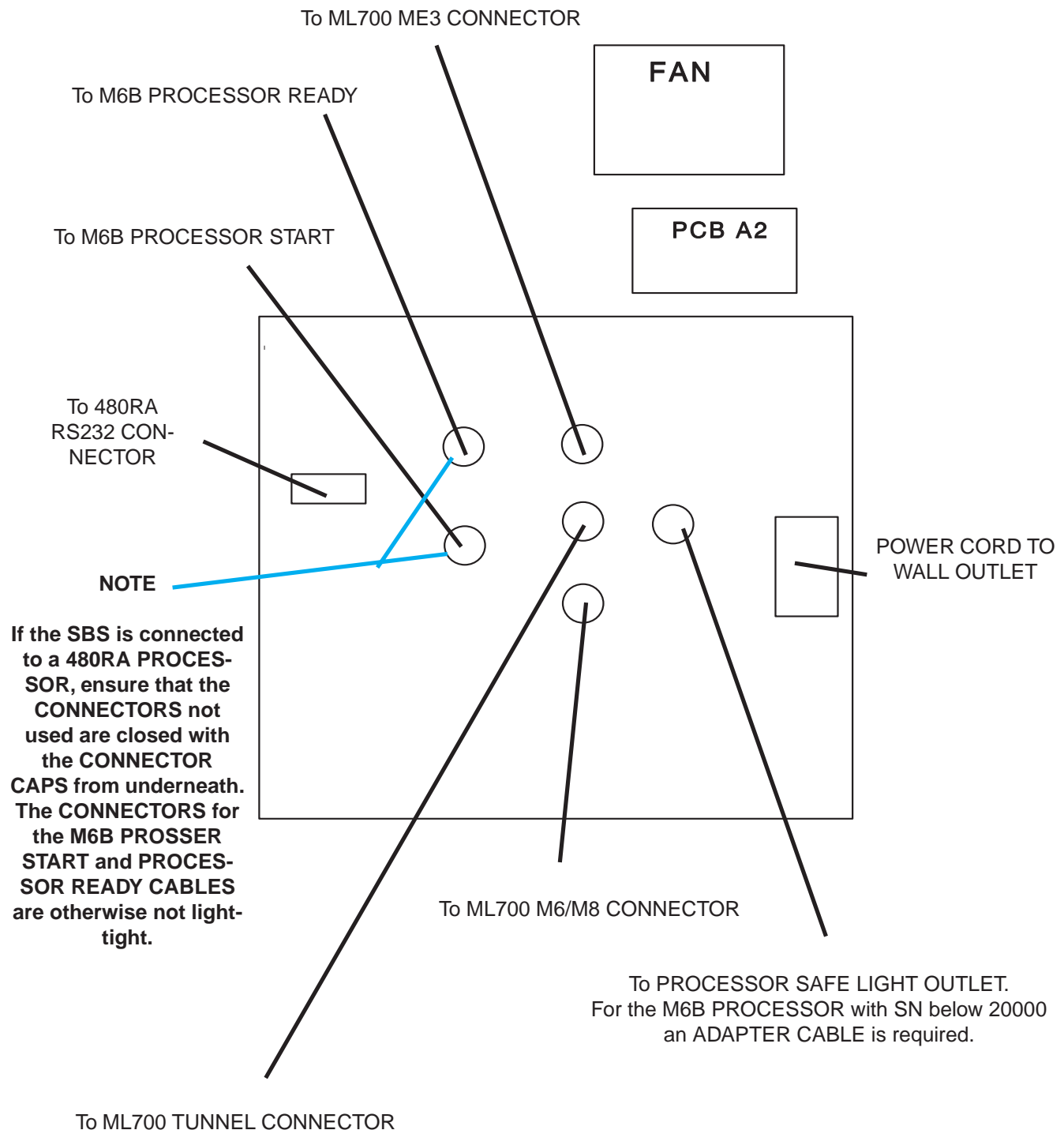


figure 8-5

- 15.** Connect the supply and drain hoses to the PROCESSOR. Ensure that they are not kinked. If necessary use ELBOW FITTINGS at the PROCESSOR.
- 16.** If the supply and drain hoses are routed into the DARK ROOM, feed them through the SMALL SEAL PLATE which is part of the INSTALLATION KIT. This plate ensures that the cut-out around the hoses is lighttight.

### NOTE

If transparent hoses are fed into the DARK ROOM, the DARK ROOM will not be light tight. Cover them with pieces (approx. 50 cm each) of the black SHRINKING TUBE which is supplied with the SBS INSTALLATION KIT..

- 17.** If the SBS-SYSTEM is installed with the rear against a wall do step 18 else do step 19.
- 18.** To avoid displacement of the SYSTEM fix it with the 2 WALL ANCHORS to the wall.

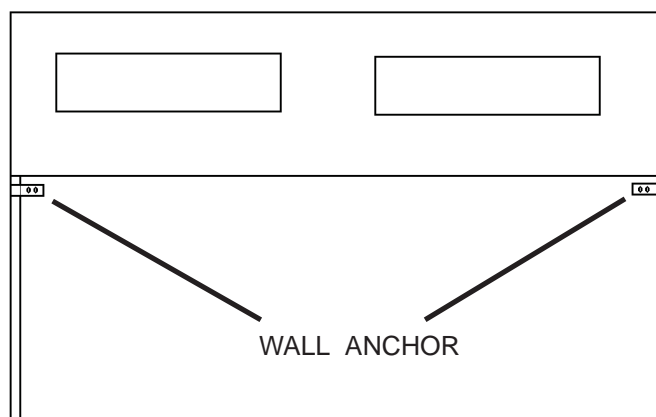


figure 8-6

- 19.** To avoid displacement of the freestanding SBS-SYSTEM turn down the LEVELLING FEET of the ML700.
- 20.** If a DFT is to be used, mount the RED/GREEN LED BOX to the wall. Use the VELCRO STRIP.



## 9. PARAMETERS

Check the following ML700 / ML700 Plus PARAMETERS and set them to the given values.

1. TUNNELFLAG ..... **2**  
0 = No TUNNEL  
1 = Standard ML700 Tunnel  
2 = Side-By-Side Kit
2. PROCESSOR DELAY ..... **28**
3. PROCESSOR FLAG ..... **1**
4. For the ML700 select on PCB A9 (top right of ML700) the position for the M8 PROCESSOR.

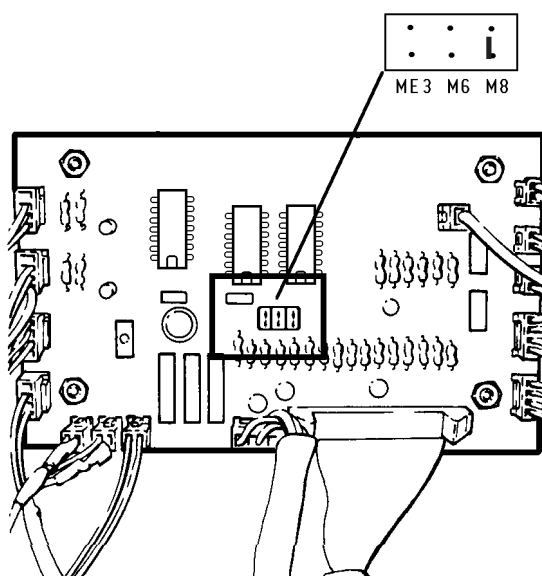


figure 9-1

5. For the ML700 Plus select on PCB A9 the following JUMPER SETTING:

JUMPER A9X14	5 to 6
JUMPER A9X15	1 to 3
JUMPER A9X15	2 to 4

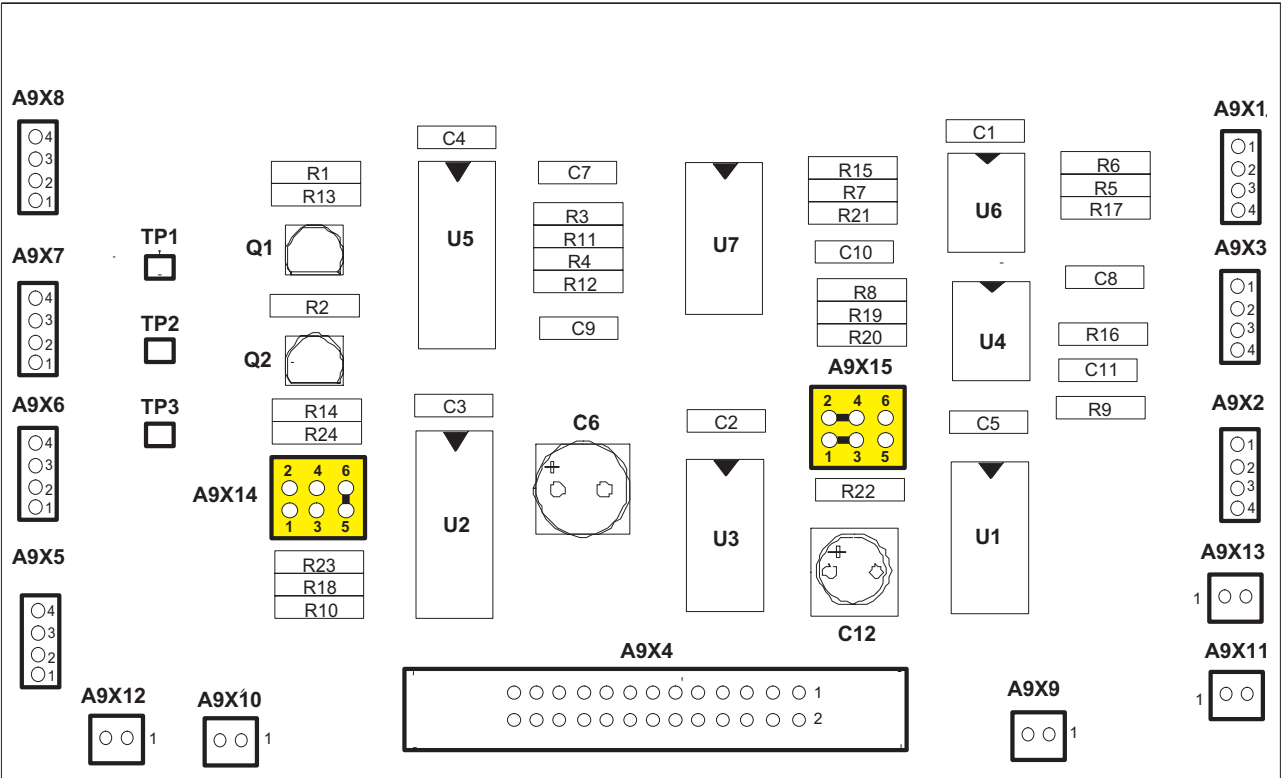


figure 9-2



## 10. ADJUSTMENTS

### CARRIAGE POSITION LEFT AND RIGHT

1. Override the SBS-INTERLOCK with 2 PERMANENT MAGNETS (PN 544240). Place them above the REED CONTACTS on either side of the SBS.
2. Load TEST FILMS into to ML700 to avoid fogging of CUSTOMER FILMS.
3. Run a few cycles with different CASSETTE SIZES and observe the film transport through the SBS.
4. Check that large films are transported centred into the SBS-CARRIAGE from the ML700. If the FILM is not centred, continue with step 5, else continue with step 6.
5. Turn the SENSOR POSITION SCREW of SENSOR B3/4 (adjust the SENSOR on the ML700 side of the SBS) in or out as required and go back to step 3.  
SENSOR B3 detects the left-hand position of the CARRIAGE  
SENSOR B4 detects the right-hand position of the CARRIAGE.  
If necessary move the SENSOR MOUNT up or down, so that the CARRIAGE FLAG is midway in between. This midway position is not critical.

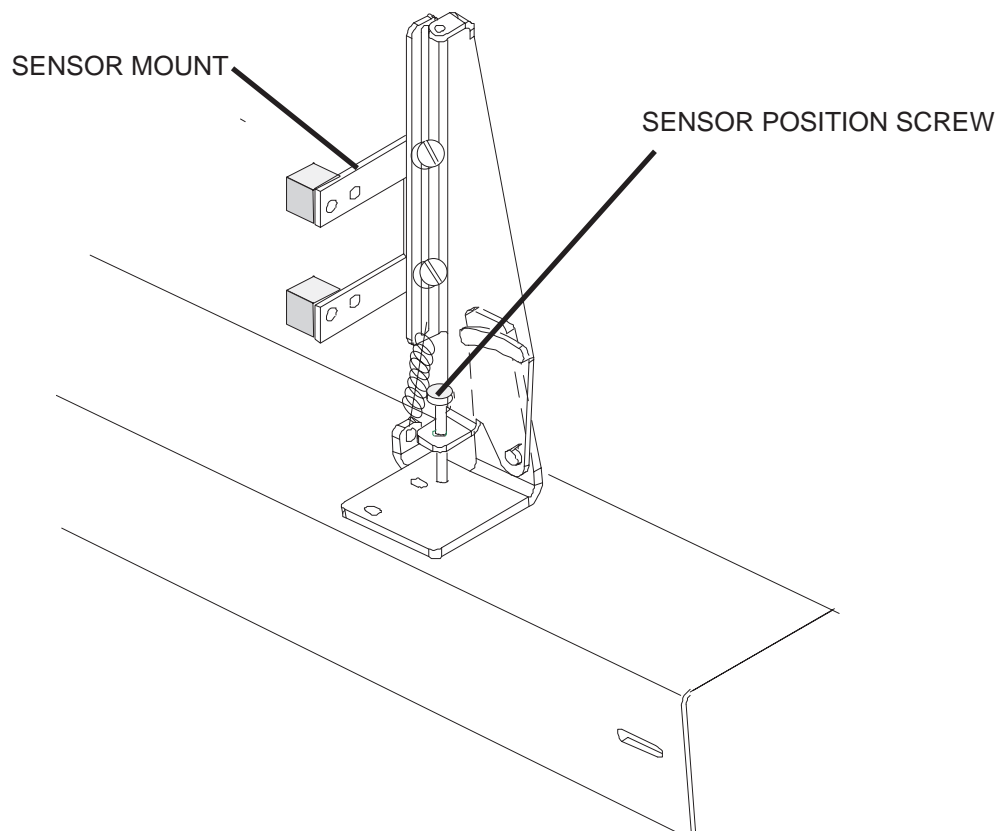


figure 10-1

6. Ensure that a large FILM(35x43) passes through the ADAPTER and that it is fed correctly into the PROCESSOR. If the FILM touches the right or left side of the PROCESSOR FEED SLOT, continue with step 7 else with step 9.
7. Turn the SENSOR POSITION SCREW of SENSOR B3/4 (adjust the SENSOR on the PROCESSOR side of the SBS) in or out as required. See the drawing on the previous page. If necessary move the SENSOR MOUNT up or down, so that the CARRIAGE FLAG is midway in between. This midway position is not critical.
8. Start the next cycle and go back to step 6.
9. Ensure that the FILM passes correctly through the SLOT of the PROCESSOR UNIVERSAL FILM DETECTOR BOARD. If necessary adjust the position of this board.
10. There is an access hole in the PROCESSOR ADAPTER to adjust the volume of the 480RA PROCESSOR BEEPER.

## BRIGHTNESS CONTROL

### NOTE

Do this adjustment if a DFT is installed

1. Turn the POTENTIOMETER on the BRIGHTNESS CONTROL PCB until the desired brightness of the RED/GREEN DFT LED is achieved.

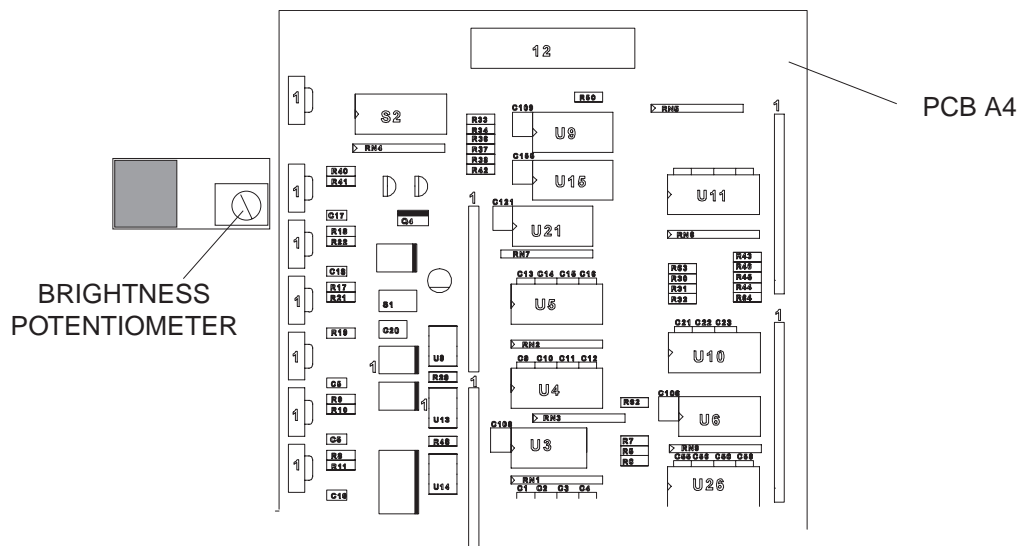


figure 10-2

# 11. FINAL TEST

## CHECK LIST

### SBS SWITCH SETTING, JUMPERS and CABLES

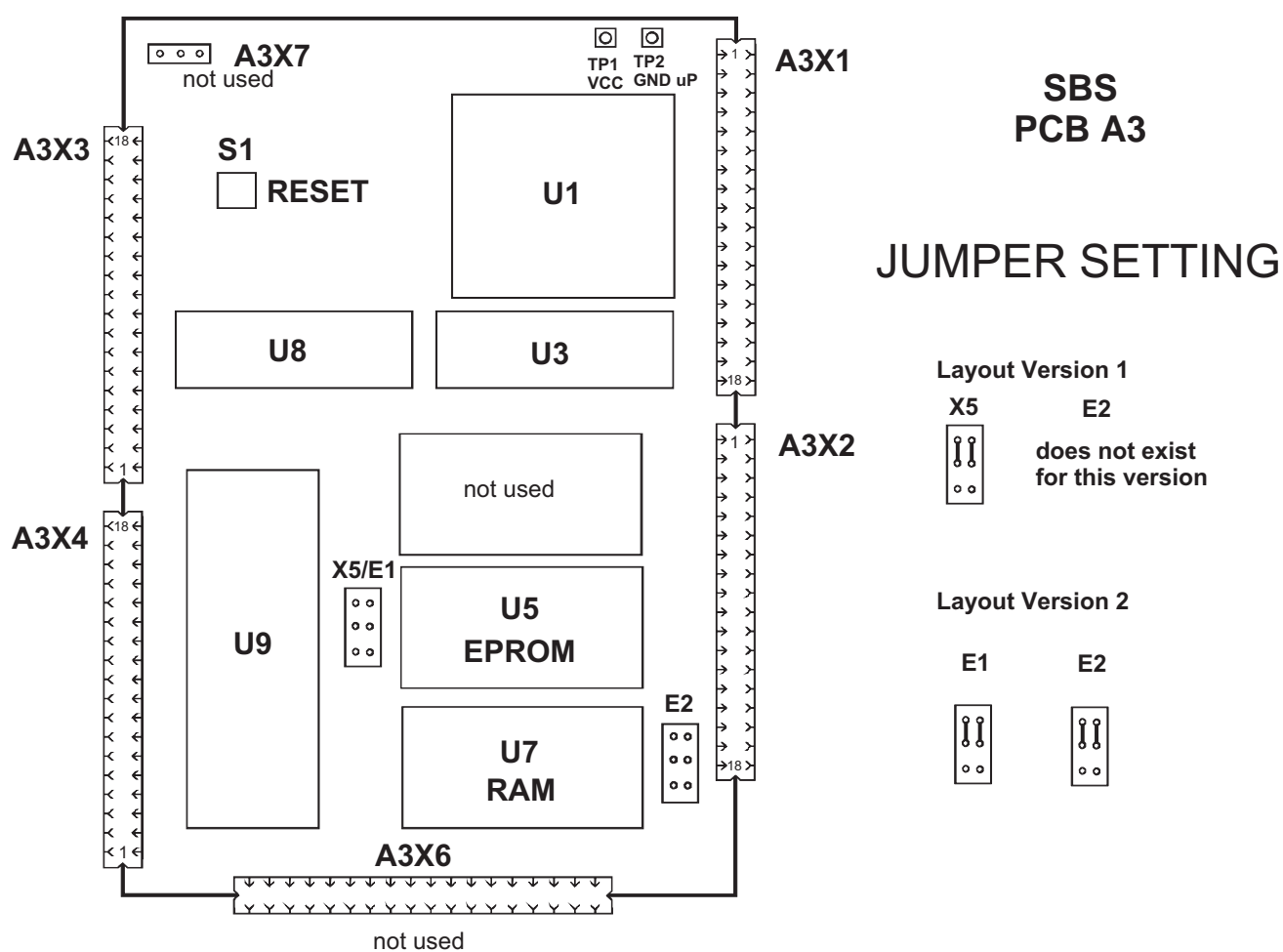


figure 11-1

**SBS PCB A4 SWITCH SETTING S2**

	ML700 RIGHT	ML700 LEFT	460/480RA	M6B	5000RA
S2-1	ON	OFF			
S2-2			ON	OFF	OFF
S2-3			ON	OFF	ON

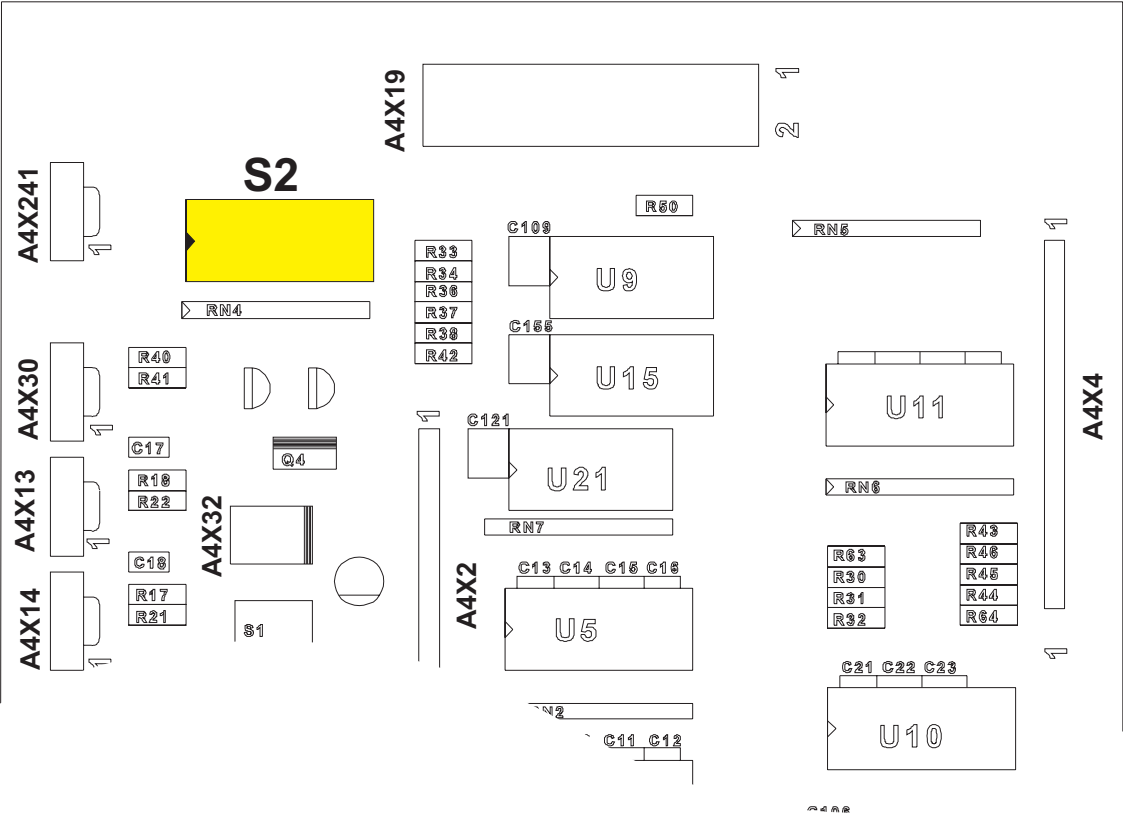


figure 11-2

## CABLE CONNECTIONS

Check that the following cables are connected:

- TUNNEL CABLE ML700 / ML700 Plus to SBS
- CABLE SBS 70 ML700 / ML700 Plus M6/M8 CONNECTOR
- CABLE SBS to ML700 / ML700 Plus ME3 CONNECTOR
- POWER CORD PROCESSOR SAFELIGHT OUTLET to SBS
- 480RA / 5000RA RS232 CONNECTOR to SBS
- M6B PROCESSOR START CABLE to SBS

## PROCESSORS

- **M6B**      PROCESSOR READY KIT must be installed
- **480RA / 5000RA**      RECEPTACLE MODE must be set to ACCESSORY

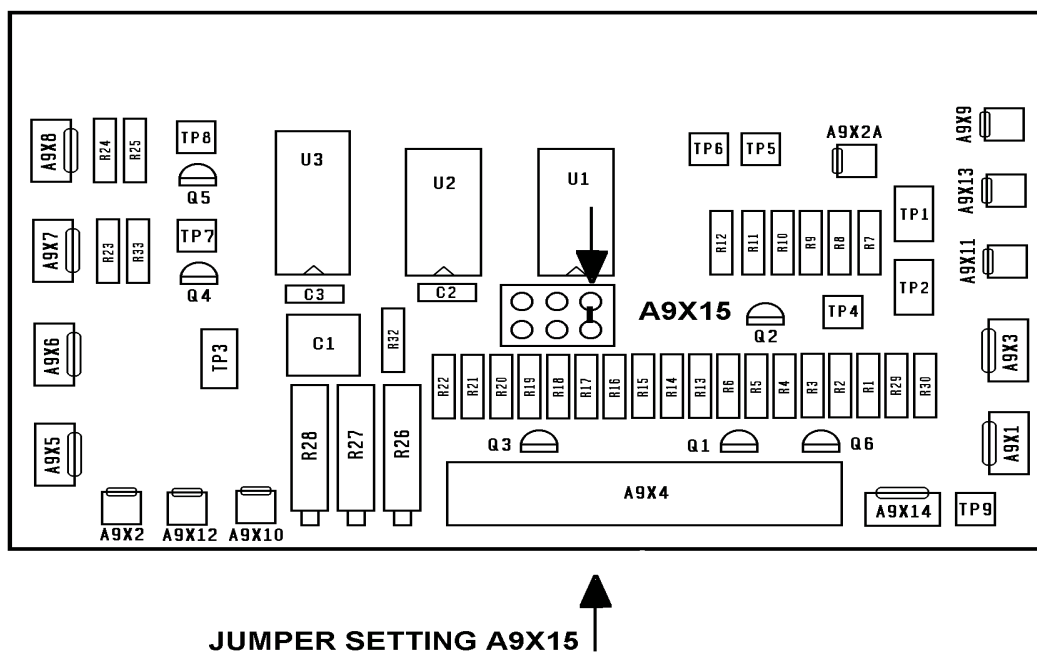


figure 11-3

**JUMPER SETTING ML700 PCB A9**

Set JUMPER A9X15 as shown below.

**JUMPER SETTING ML700 Plus PCB A9**

JUMPER A9X14	5 to 6
JUMPER A9X15	1 to 3
JUMPER A9X15	2 to 4

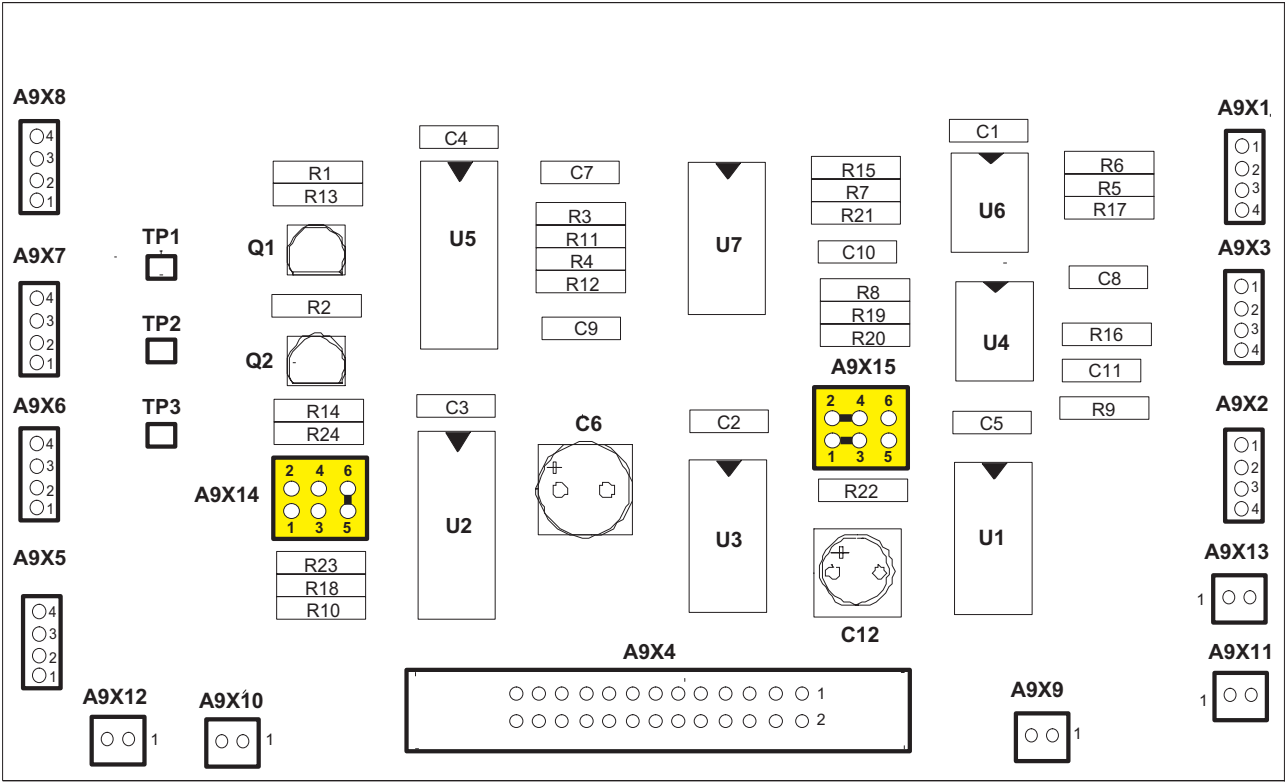


figure 11-4

**PARAMETERS ML700 / ML700 Plus**

TUNNEL FLAG.....2  
PROCESSOR.....1

## FINAL CHECKS

1. Press the SERVICE BUTTON while the permanent magnets still override the SBS INTERLOCK SYSTEM. The SBS performs now a reset and the CARRIAGE should move from the PROCESSOR to the ML700 and back. This test ensures that the SERVICE BUTTON works correctly, for it has to be used by the customer in case of a problem. The CARRIAGE must be on the PROCESSOR SIDE during STANDBY

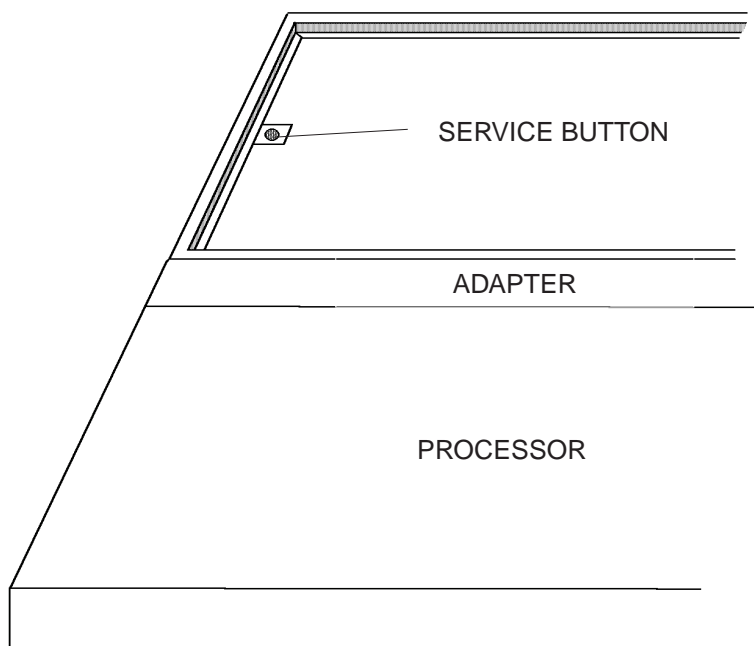


figure 11-5

2. Take out the permanent magnets and put the SBS-COVER and the ADAPTER-COVER in place.
3. Mount all PANELS.
4. Load the magazines with fresh films.
5. Run several cycles and check the processed films to see if the system is light-tight.
6. If a DFT is installed, feed several unexposed films through the DFT and check the processed films to see if the system is light tight.

### NOTE

Light tightness of the DFT is critical. If it is not sealed correctly with foam rubber, fogged films will be the result. Not only FILMS from the DFT may then be fogged, but also FILMS from the ML700 too.

- 7.** Repeat the LIGHT TIGHTNESS TEST with films evenly exposed to a density of approx. D1.
- 9.** Check the function of the DARK ROOM FEED TRAY:
  - DFT COVER open -DFT IN USE- is displayed on the Multiloader and the CARRIAGE TRANSPORT BELTS are running.
  - DARKOOM LED (while DFT COVER is closed), red when Multiloader in use, green in STANDBY
- 8.** Test the electrical safety of the system according to your local safety rules.



## 12. CHANGING THE SBS ORIENTATION

The SBS is set up for the desired orientation in the factory already. However it is possible to reverse the orientation in the field if necessary. This will take approx. 2 hours.

**To reverse the orientation, all of the following steps must be performed:**

1. Reverse the FREE RUNNING CLUTCHES left and right.
2. Reposition the CLUTCH ASSEMBLIES left and right.
3. Reposition SENSOR B3/4.
4. Mount SENSOR B1 to the opposite side.
5. Reverse the position of the GUIDE RAIL.
6. Route the ADAPTER CABLES to the opposite side.
7. Reposition the SERVICE BUTTON.
8. Reposition the DFT COVER PLATES.
9. DIP SWITCH SETTING.
10. Reposition the SBS MOUNTING BOLTS.

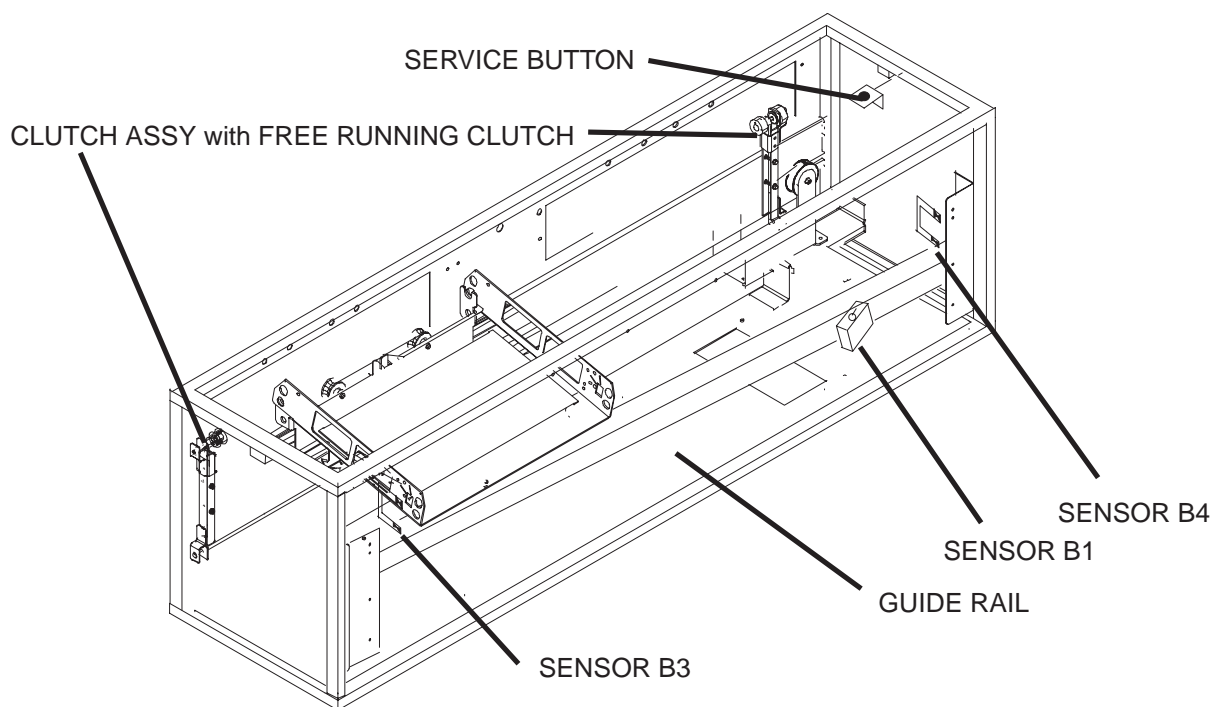


figure 12-1

## REVERSE THE FREE RUNNING CLUTCHES

### NOTE

The procedure for the CLUTCH left and right is the same.

1. Push the complete assembly in and hold it. Take out the C-RING.
2. Slide out the SHAFT until the GEAR with the FREE RUNNING CLUTCH comes free.
3. Reverse the GEAR.
4. Slide in the SHAFT and secure it with the C-RING.
5. Check on the ML700 side that the CLUTCH is engaged when the FILM is transported into the SBS CARRIAGE.
6. Check on the PROCESSOR side that the CLUTCH is engaged when the FILM is transported out of the SBS CARRIAGE.
7. Check that correct rotation of the clutches is achieved. Manually rotate MOTOR M2. If the CARRIAGE is on the ML700 side the BELTS must transport the FILM away from the ML700. If the CARRIAGE is on the PROCESSOR side, the BELTS must transport the FILM to the PROCESSOR.

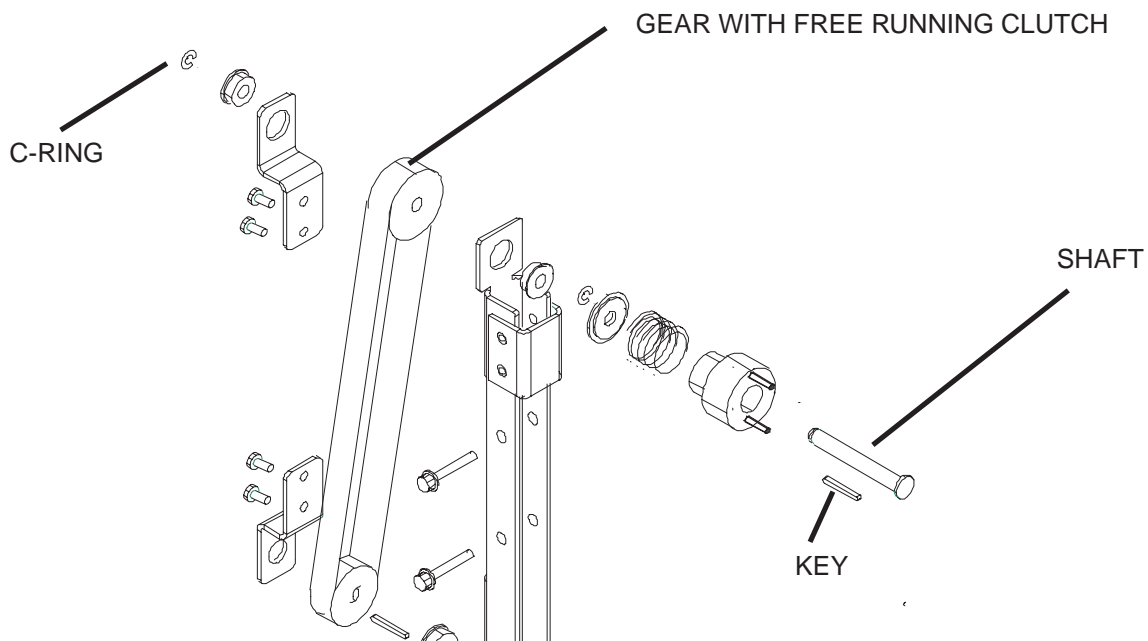


figure 12-2

## REPOSITION THE CLUTCH ASSEMBLY LEFT AND RIGHT

1. Select the new position for the CLUTCH ASSEMBLIES on either side.

### NOTE

There are LABELS with the various positions marked. See figure 12-5.

## REPOSITION SENSOR B3/4

1. Select the new position of SENSOR B3/4.

### NOTE

There are LABELS with the various positions marked. See figure 12-5.

2. The final position of SENSOR B3/4 must be adjusted after the complete system is set up. See Chapter 11.

## MOUNT SENSOR B1 TO THE OPPOSITE SIDE

1. Mount SENSOR B1 to the opposite side.

### NOTE

This SENSOR must be at the ML700 exit

2. Check after SYSTEM SET UP the gain adjustment of this SENSOR.  
Turn its GAIN ADJUSTMENT SCREW ccw until the INDICATOR LED turns red.  
Turn the SCREW cw until the INDICATOR LED turns green.  
Turn 1 step further. Not more !!! This would cause the SENSOR to ignore the FILM.

## REVERSE THE POSITION OF THE GUIDE RAIL.

1. Select the new position of the GUIDE RAIL.

### NOTE

There are LABELS with the various positions marked. See figure 12-5.

## ROUTE THE ADAPTER CABLES TO THE OPPOSITE SIDE

1. Open the CABLE DUCT and route the CABLES for the PROCESSOR ADAPTER to the other side.
2. If the PROCESSOR has to be right of the ML700 an EXTENTION CABLE (PN 9261311) is required. Connect it to PCB A4X15 and route it to the PROCESSOR side.
3. Fix the CABLES with WIRE TIES and close the CABLE DUCT.

## REPOSITION THE SERVICE BUTTON

The SERVICE BUTTON should always be on the PROCESSOR side of the SBS. If the system is not installed against a wall left or right, it is not necessary to reposition the SERVICE BUTTON, because there is access on either side.

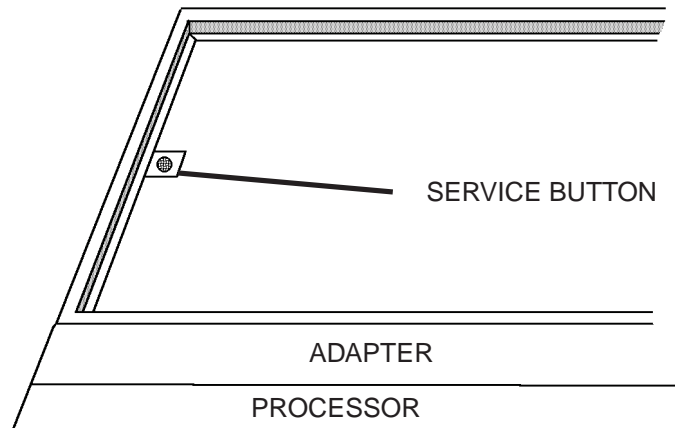


figure 12-3

## REPOSITION THE DFT COVER PLATES.

To mount the DFT to the opposite side, mount the left-hand COVER PLATE in the position of the right-hand COVER PLATE and mount the right-hand COVER PLATE in the position of the left-hand COVER PLATE.

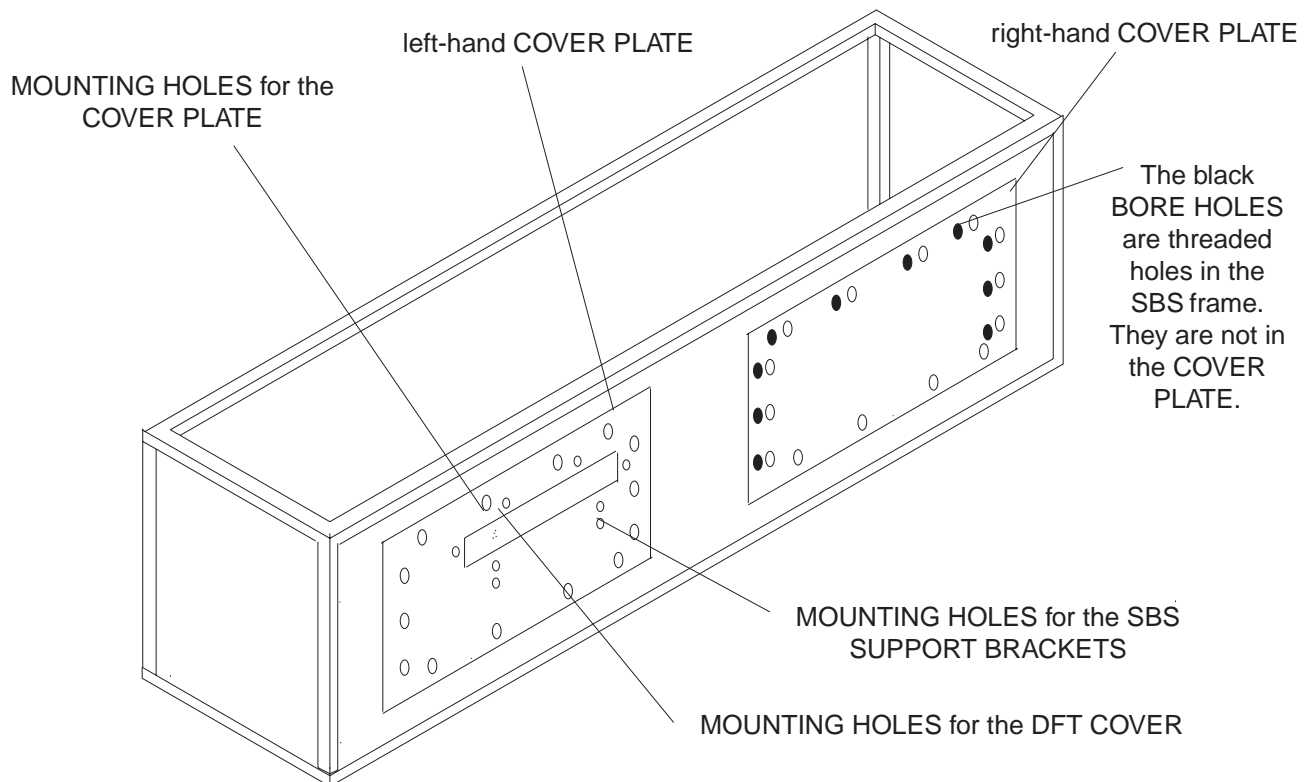


figure 12-4

## DIP SWITCH SETTING

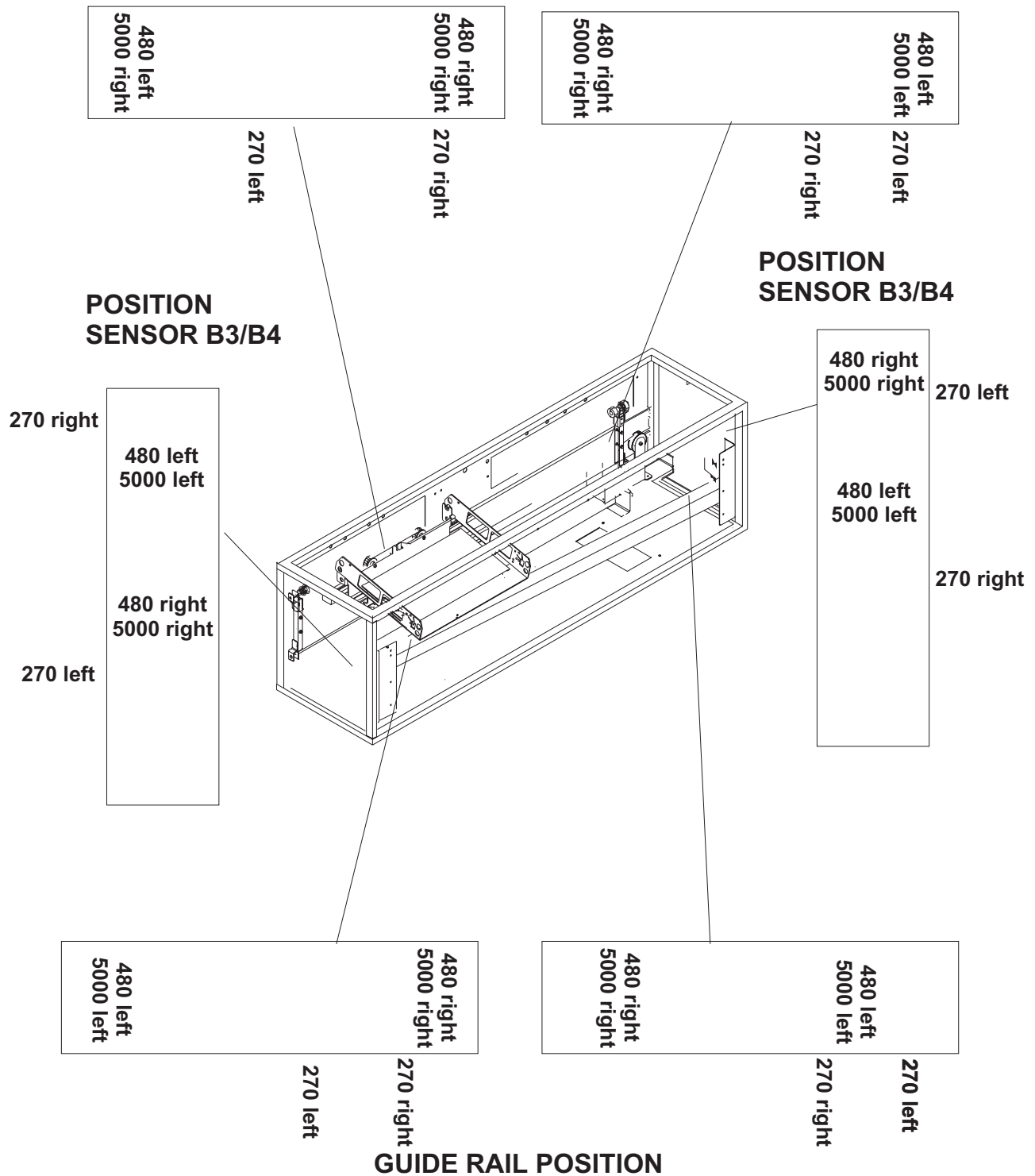
Switch S2-1 on PCB A4 of the SBS must be set to the correct orientation. See figure 12-7.

	<b>ML700 RIGHT</b>	<b>ML700 LEFT</b>
<b>S2-1</b>	ON	OFF

## REPOSITION THE SBS MOUNTING BOLTS

Mount the SBS MOUNTING BOLTS to the correct position. (ML 700 left / right).  
See figure 12-6.

## CLUTCH ASSEMBLY POSITION



### NOTE

The 6 LABELS are not drawn to scale.

figure 12-5

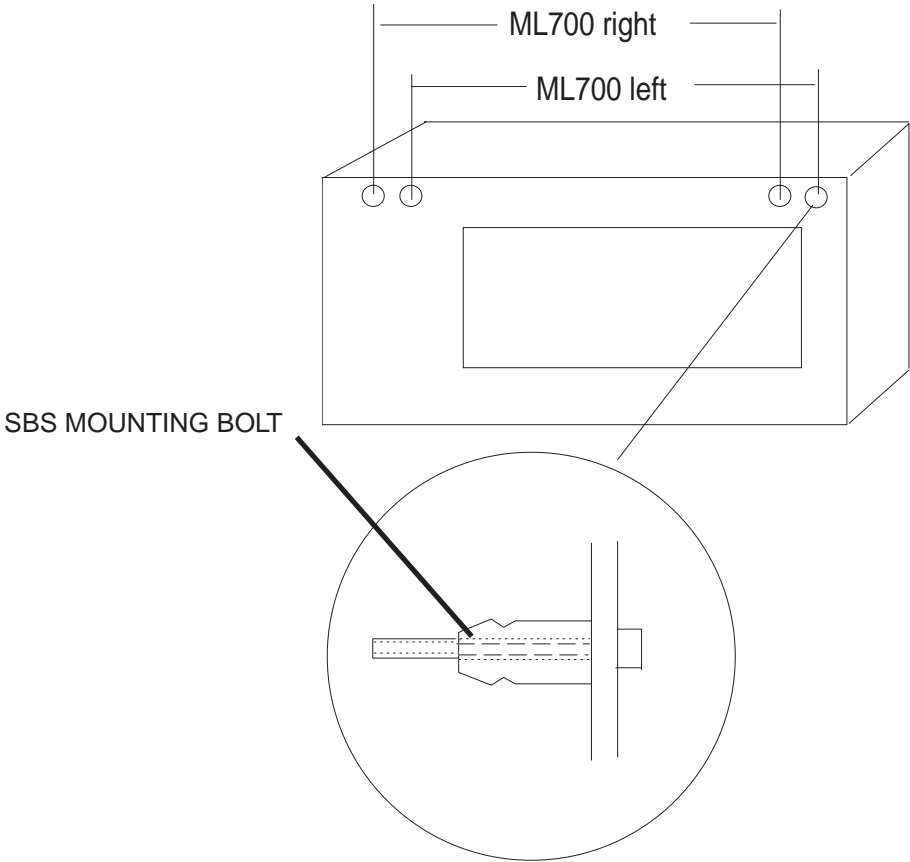


figure 12-6

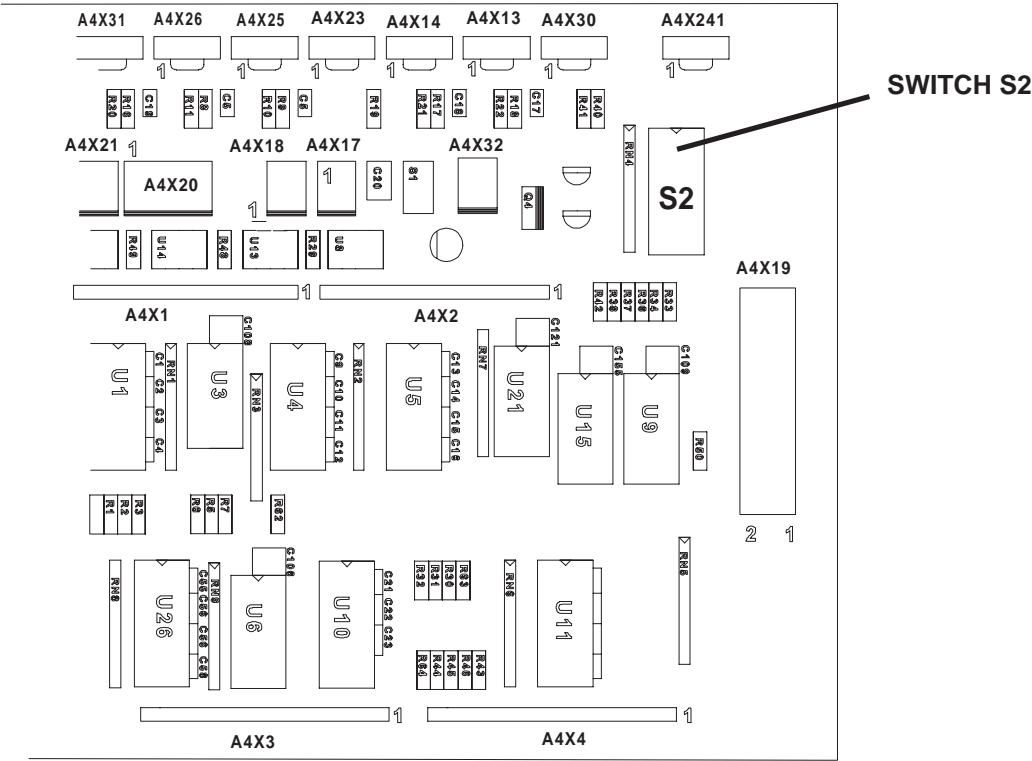


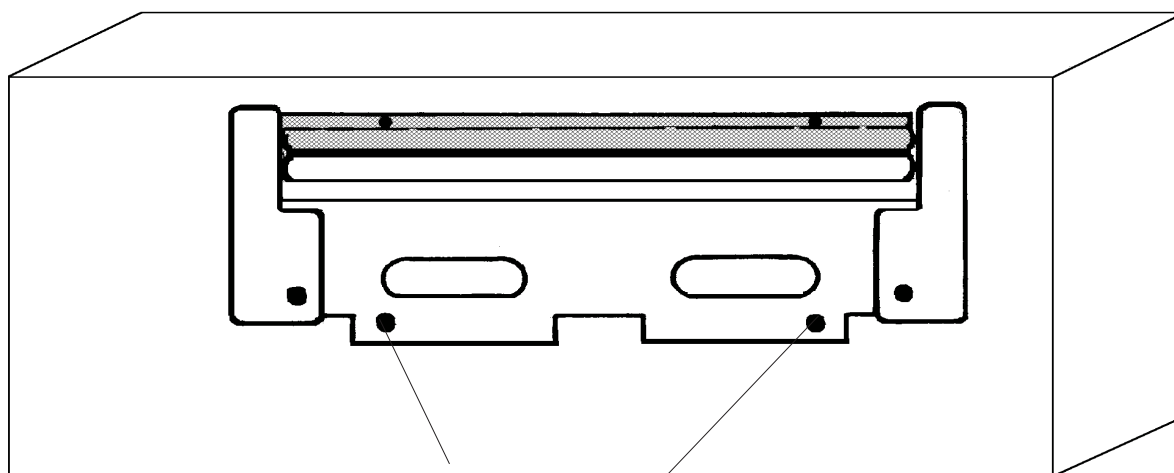
figure 12-7





## 13. CONNECTING THE ADAPTER TO THE 5000RA PROC.

1. Take the CONVEYER out of the ADAPTER and discard TRANSPORT LOCKS.



Take out these 2 SCREWS and pull out the CONVEYOR

figure 13-1

2. Screw the SBS MOUNTING BOLTS to the rear of the ADAPTER. Select the correct position for ML700 left / right. Use SCREWS M5x50.

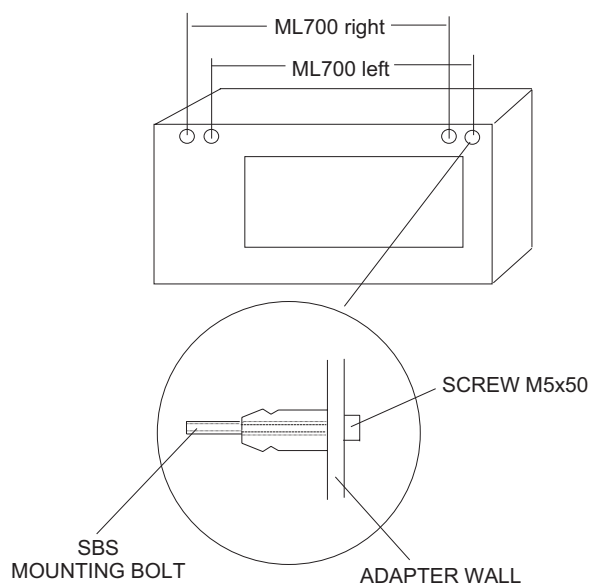


figure 13-2

3. Mount the ADAPTER FRAME to the rear of the PROCESSOR. Use the existing 2 bottom screws only. These SCREWS are packed with the PROCESSOR INSTALLATION KIT.

### NOTE

The PROCESSOR SCREWS are imperial, the SBS and ML700 SCREWS are metric.

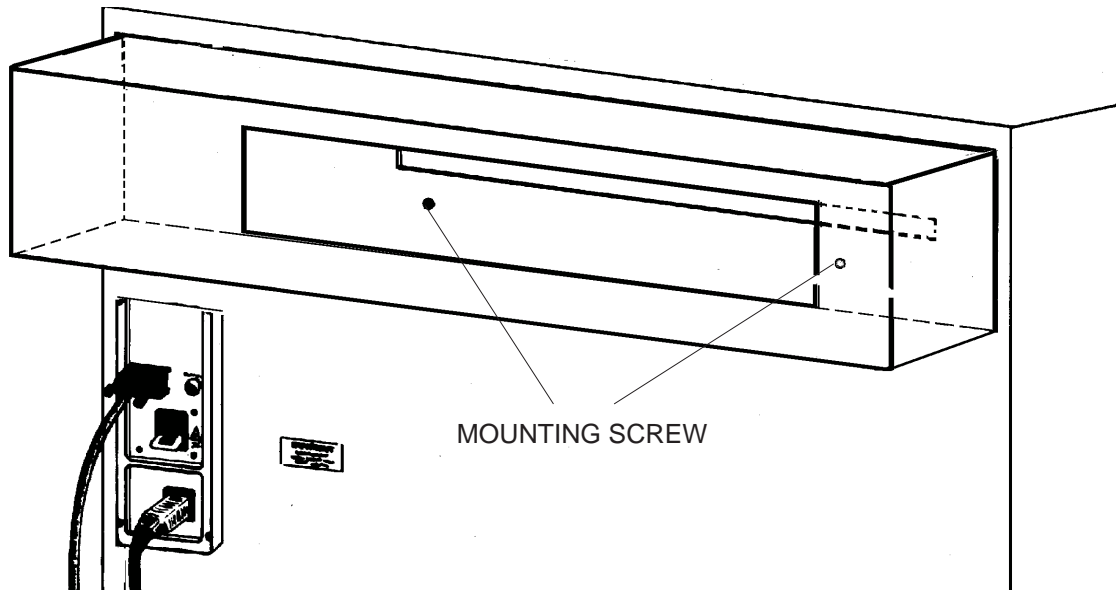


figure 13-3

4. Mount the UPPER EXIT GUIDE and fix it with 3 SCREWS (imperial). These SCREWS are packed with the PROCESSOR INSTALLATION KIT. If necessary add WASHERS from the PROCESSOR INSTALLATION KIT.

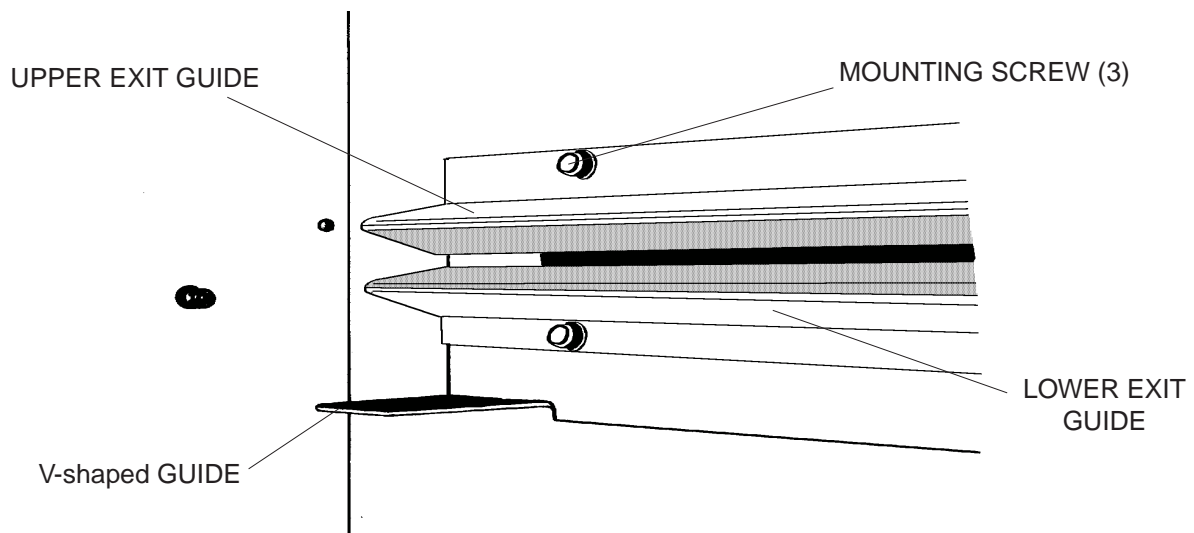


figure 13-4

5. Adjust the LOWER and UPPER EXIT GUIDE to ensure that the FILM is guided correctly into the PROCESSOR.
6. Insert the CONVEYER into the ADAPTER. There are V-shaped guides on either side of the CONVEYER FRAME. They guide the CONVEYER into the correct position.

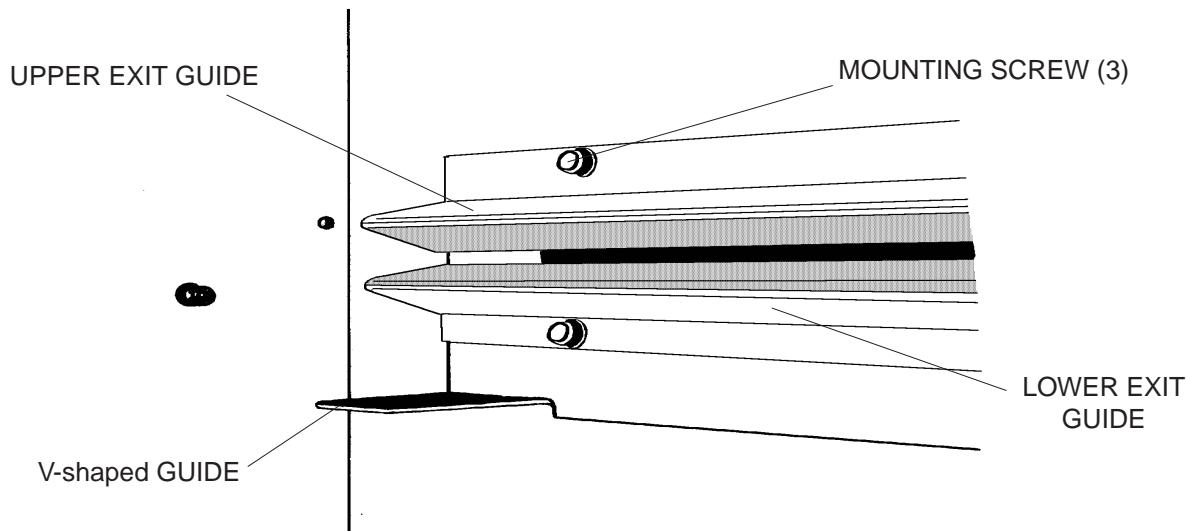


figure 13-5

7. Route the cable out of the ADAPTER. The SENSOR - and MOTOR WIRES will be connected later to PCB A4.
8. Fix the CONVEYER in place with 2 MOUNTING SCREWS. Use SCREWS M4x10.

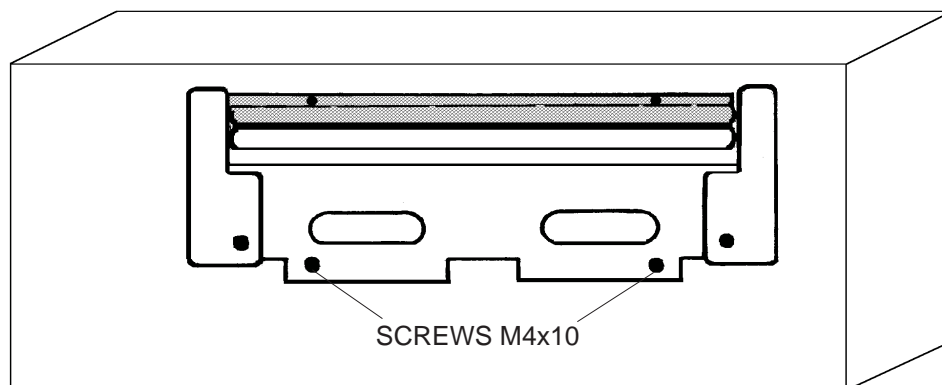


figure 13-6

9. Set up the PROCESSOR as required. See the PROCESSOR INSTALLATION MANUAL.



## 14. KODAK MULTILOADER 700 PLUS SIDE-BY-SIDE DARKROOM KIT

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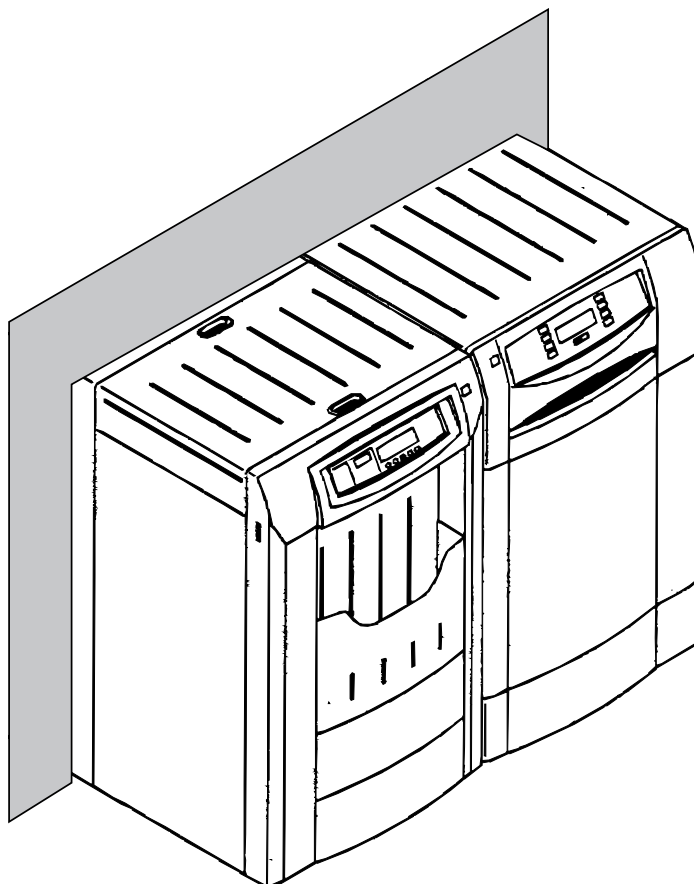
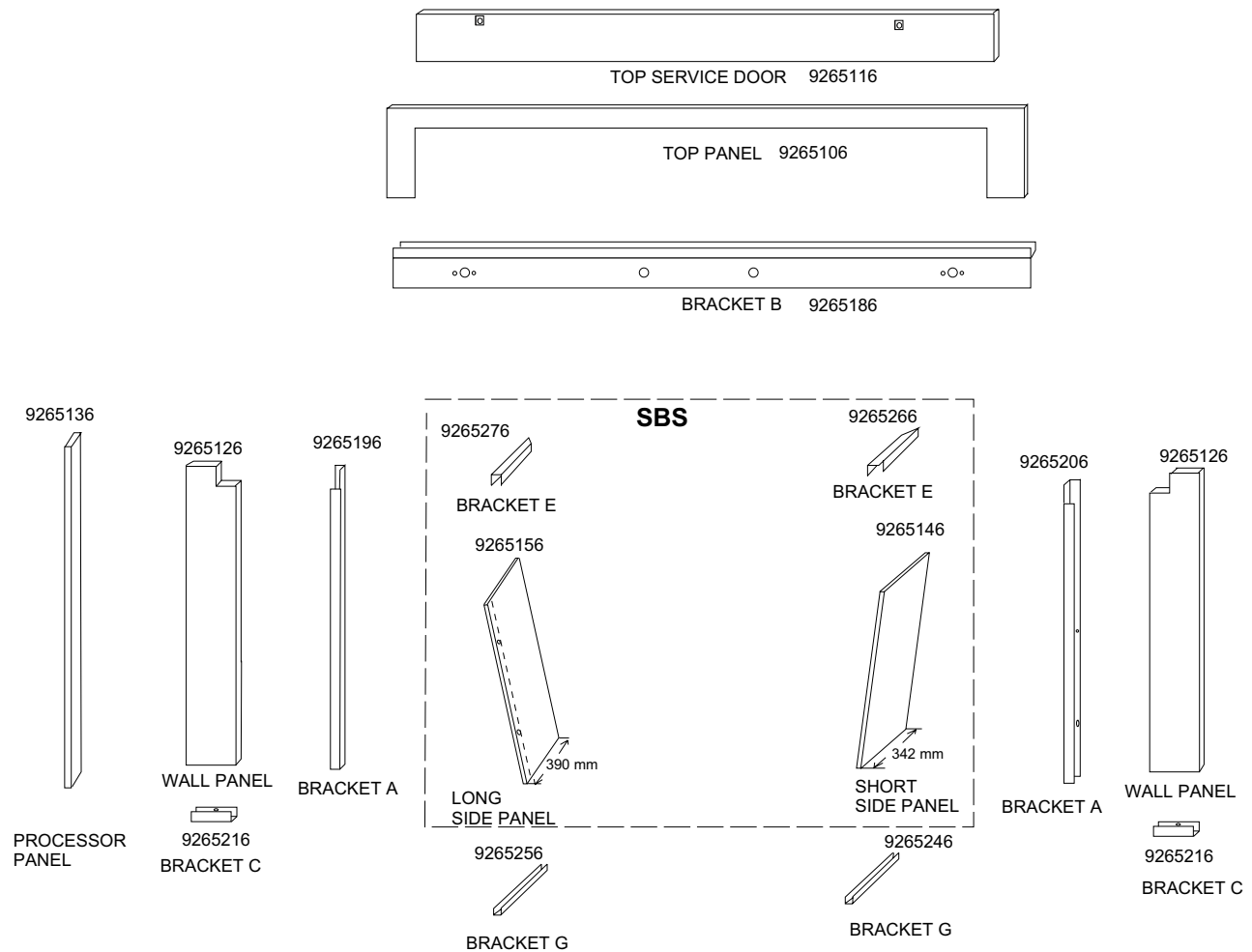


figure 14-1

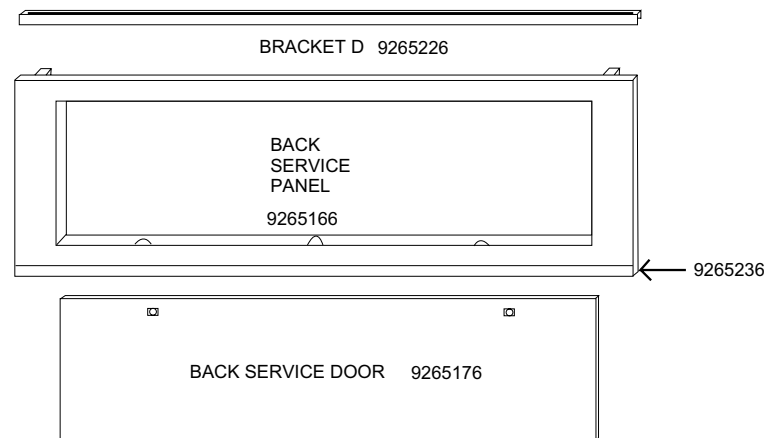
### OVERVIEW

The KODAK Multiloader 700 Plus Side-by-Side Darkroom Kit (referred to as SBS in this chapter) is installed in the wall between the lightroom and the darkroom, so that the customer has more space available in the lightroom.

# PARTS LIST



## Parts View from the Back Side



20 SCREWS 3.5 x 17 mm  
10 SCREWS 4.0 \* 35 mm  
3 SCREWS 4.0 \* 30 mm  
4 SCREWS M4 x 20 mm  
4 WASHERS 6.4 mm

figure 14-2

## SITE REQUIREMENTS

Wall opening between lightroom and darkroom:

width 1580 mm - 1600 mm (62.2 - 63.0 in)

height 1510 mm - 1530 mm (59.5 - 60.2 in)

Additionally required free space for the panels around the wall opening:

width 1800 mm (71 in)

height 1700 mm (67 in)

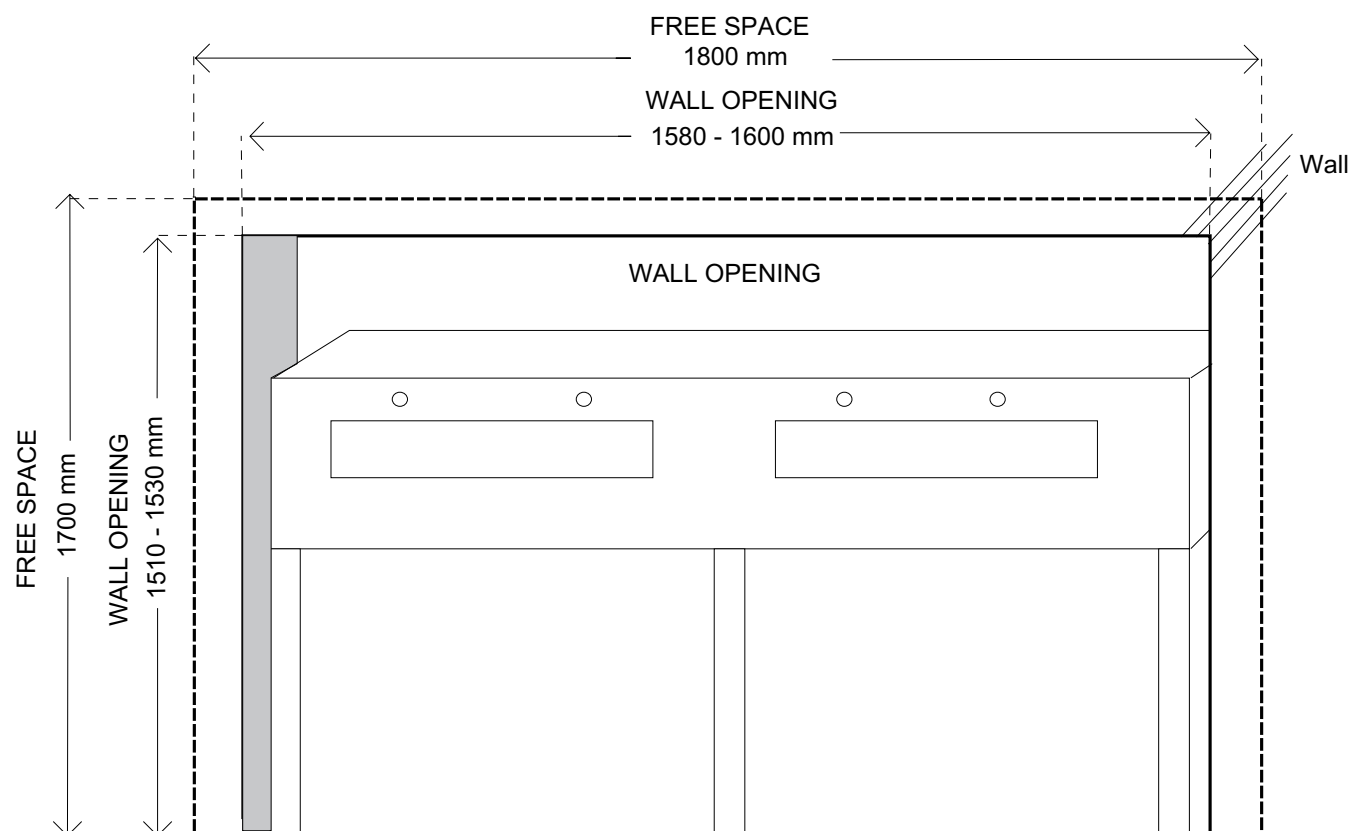


figure 14-3

## SPECIAL TOOLS

Powerdrill

SCREWS and ANCHORS

## PREPARATION

A wall opening is necessary as shown in figure 14-3.

## **NOTE**

The SCREWS and ANCHORS for attaching the panels to the wall depend on the wall type. SCREWS and ANCHORS are, therefore, not supplied. Get them locally.

The KODAK Multiloader 700 Plus Side-by-Side Darkroom Kit is installed from the lightroom. Unpack it there.

The sides on which the LONG SIDE PANEL and the PROCESSOR PANEL are installed depend on the positions of the PROCESSOR and the KODAK Multiloader 700 Plus. The figures shown in this chapter are based on an installation of the PROCESSOR at the left side and the KODAK Multiloader 700 Plus at the right side. If your PROCESSOR is installed at the right side, just exchange the positions of the LONG SIDE PANEL and the SHORT SIDE PANEL, and put the PROCESSOR PANEL to the right side.

## **GENERAL**

For installation of the SBS, refer to the corresponding chapters. This chapter only describes the additional steps necessary for the DARKROOM KIT.

Some parts of the DARKROOM KIT are finished only at one side. On installation, ensure that the finished sides are visible.



## INSTALLATION

1. Level the SBS in both directions..  
Set the distance from floor to the bottom of the SBS to 785 mm (31 in).  
See figure 14-4.

### NOTE

Measure the distance at the rear side of the SBS.

2. If the SIDE PANELS from the SBS are mounted, remove them by unscrewing the 4 SCREWS. Keep SCREWS. The SIDE PANELS from the SBS are not used for that installation.
3. Apply SILICONE to the SBS (see FIGURE 14-4).
4. Fasten BRACKETS A with the SCREWS removed in step 2 (see FIGURE 14-4).

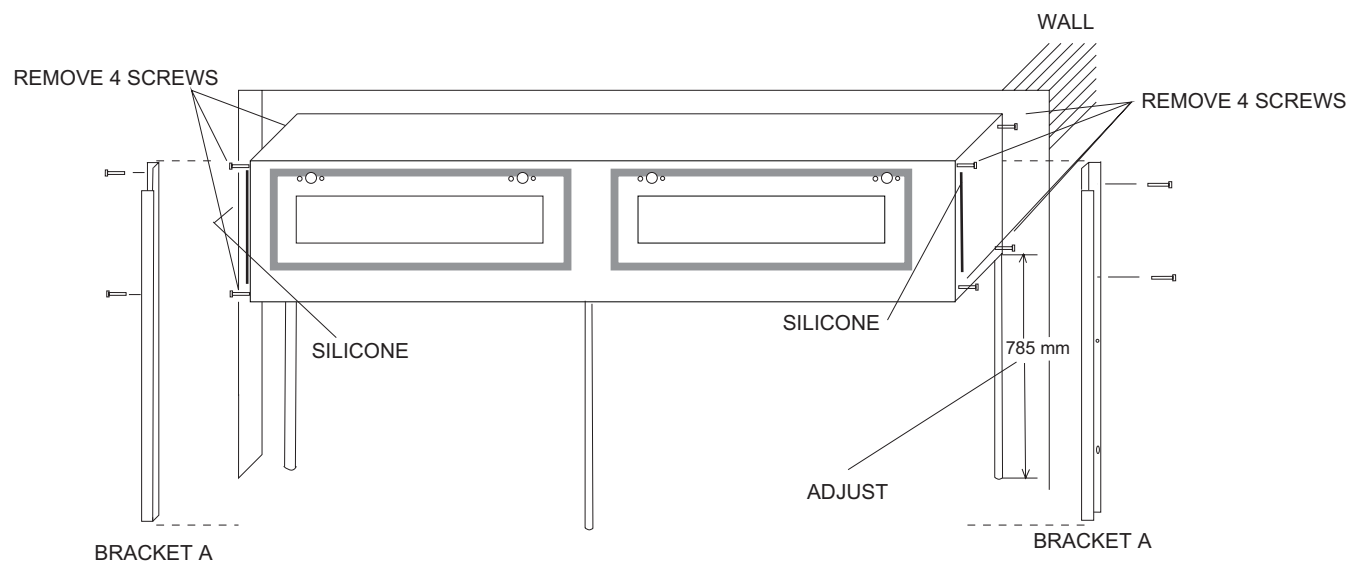


figure 14-4

5. Partly remove the FOAM RUBBER beginning at the top (see FIGURE 14-5).
6. Remove 4 SCREWS (see FIGURE 14-5).
7. Mount BRACKET B to the SBS using the 4 SCREWS M4 \* 20.

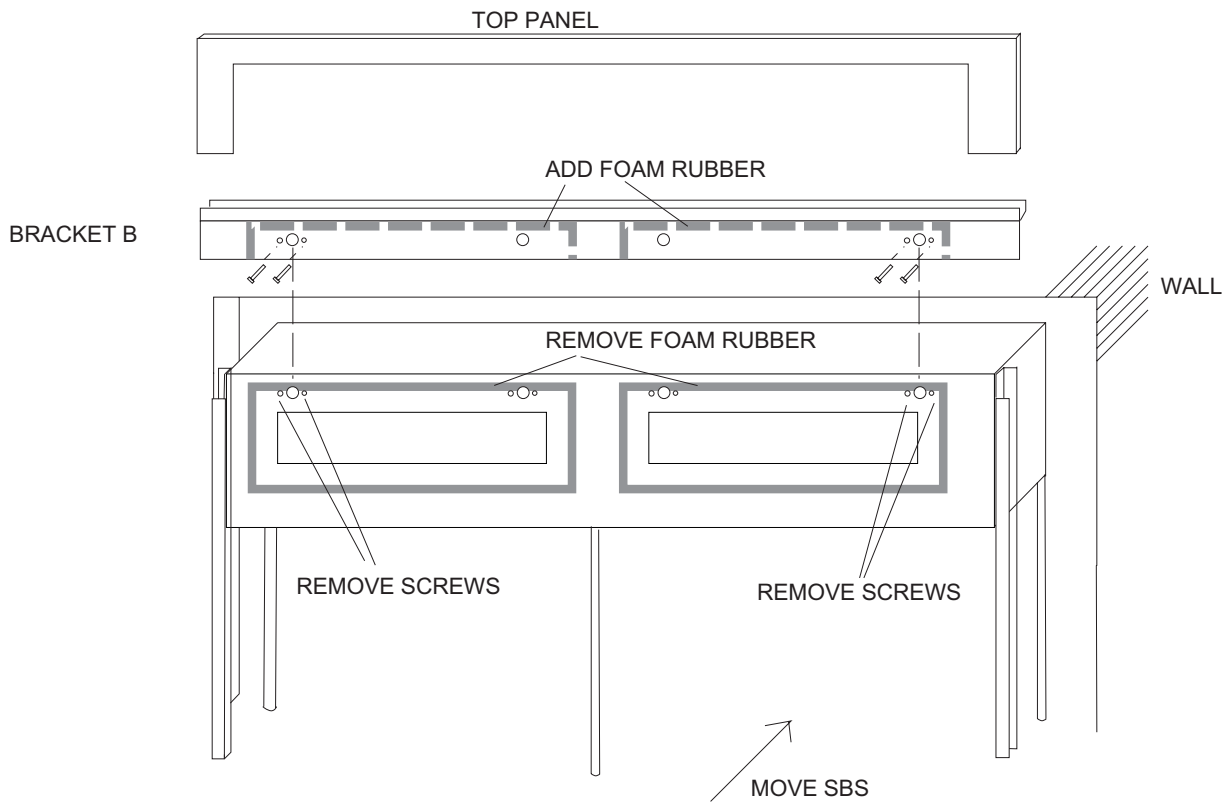


figure 14-5

8. Fix the removed FOAM RUBBER to BRACKET B.
9. Insert TOP PANEL into BRACKET B. Do not tighten it.
10. Move the SBS into the wall opening until the TOP PANEL gets in contact with the wall. Check for equal distances to the right and to the left.

**NOTE:**

Continue installation from the darkroom side (see FIGURE 4).

- 11.** Place BRACKET D on top of BACK SERVICE PANEL (see FIGURE 14-6).
- 12.** Remove protection from the DOUBLE-SIDED TAPE at BRACKET D.
- 13.** Place BACK SERVICE PANEL under the SBS (see FIGURE 14-6, TOP VIEW, STEPS 1..3).
- 14.** Adjust BRACKET D to equal distances to the right and to the left and also along the edge.

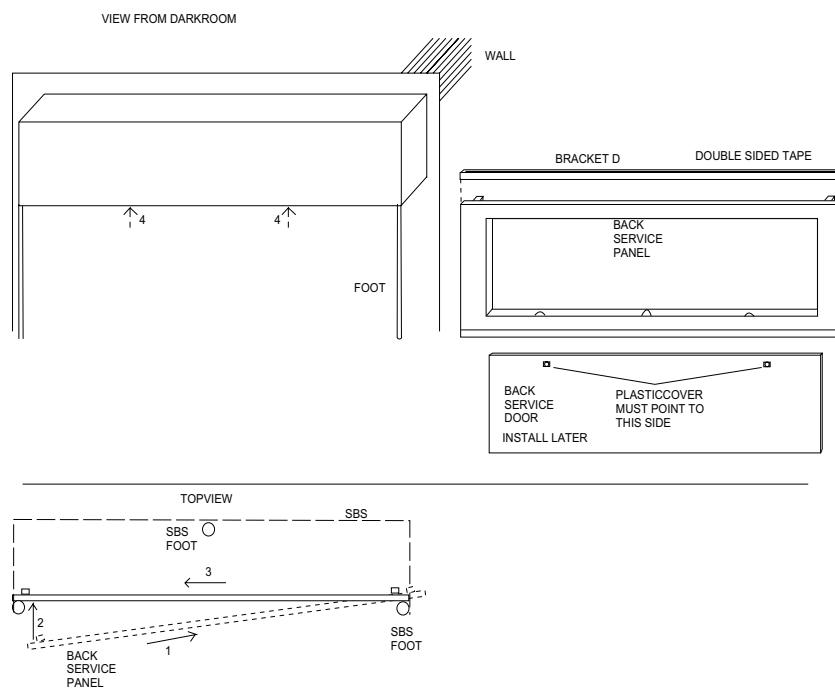


figure 14-6

- 15.** Use the BACK SERVICE PANEL (at the door opening) to help fix BRACKET D to the SBS as follows: Push the BACK SERVICE PANEL upwards against BRACKET D, so that this will be pressed against the SBS. Then let the BACK SERVICE PANEL down again. The BRACKET D should now firmly stick to the SBS.

**16.** Install BACK SERVICE DOOR later.

**NOTE:**

Continue installation from the lightroom. See FIGURE 5.

**17.** Remove protection from the DOUBLE-SIDED TAPE on BRACKETS E.

**NOTE:**

BRACKETS E are different for the left and right side (see FIGURE 5).

**18.** Place the BRACKETS E underneath the SBS at the left and at the right side (see FIGURE 14-7).

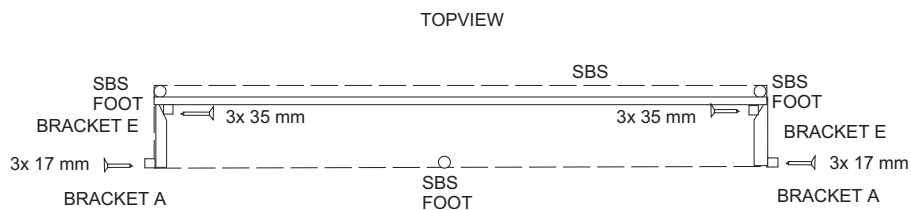
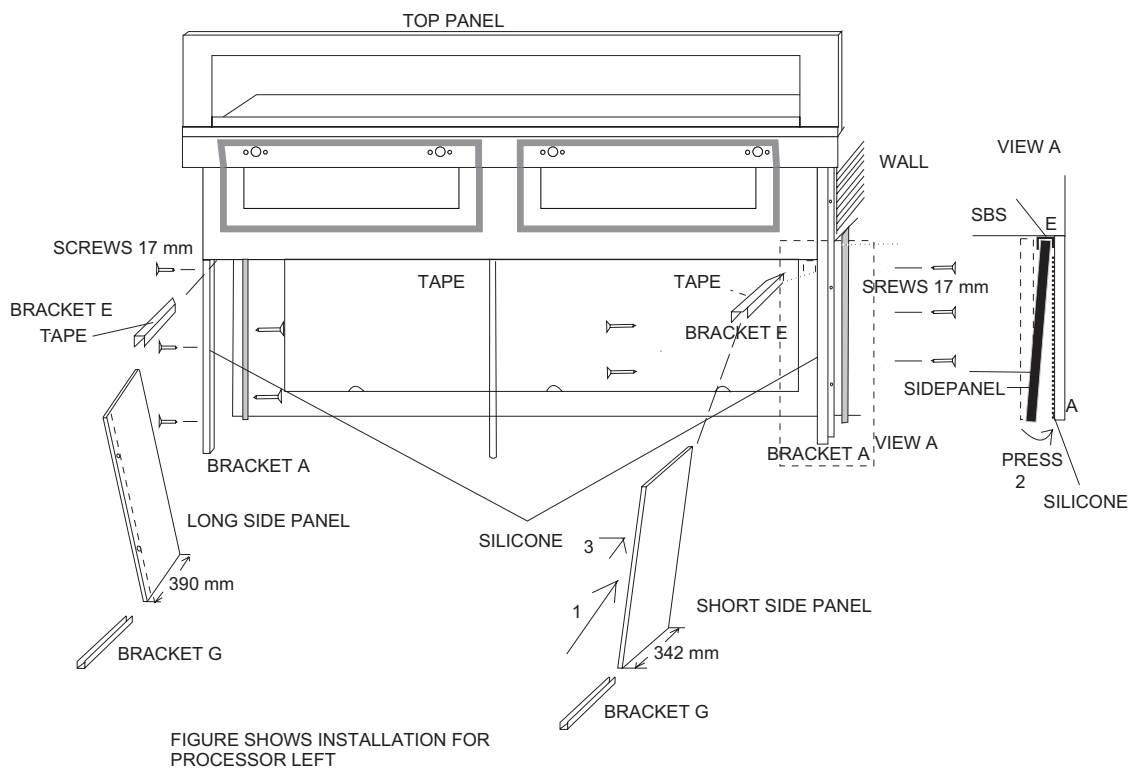


figure 14-7

- 19.** Adjust BRACKETS E along the edge of the SBS and to the BACK SERVICE PANEL.

**NOTE:**

Mount the SHORT SIDE PANEL at the MULTILOADER side.  
Mount the LONG SIDE PANEL and the PROCESSOR PANEL at the PROCESSOR side.  
The drawing shows the installation of the PROCESSOR at the left side.

- 20.** Apply SILICONE to the back of the BRACKETS A.
- 21.** Move the SIDE PANELS into the BRACKETS E (see FIGURE 14-7, STEP 1).
- 22.** Press the SIDE PANELS against BRACKETS A (see FIGURE 14-7, VIEW A, STEP 2).
- 23.** Push the SIDE PANELS to the BACK SERVICE PANEL (see FIGURE 14-7, STEP 3).
- 24.** Push the BRACKETS G under the SIDE PANELS.
- 25.** Mount the SIDE PANELS to the BACK SERVICE PANEL using SCREWS 35 mm long (see FIGURE 14-7, TOPVIEW).
- 26.** Mount the SIDE PANELS to the BRACKETS A using SCREWS 17 mm long.

- 27.** Drill 5 holes into the TOP PANEL for the SCREWS (see FIGURE 14-8). This also marks the position of the ANCHORS.
- 28.** Remove the TOP PANEL (see FIGURE 14-8).
- 29.** Drill holes for the ANCHORS into the wall at the marked positions, and insert the ANCHORS.

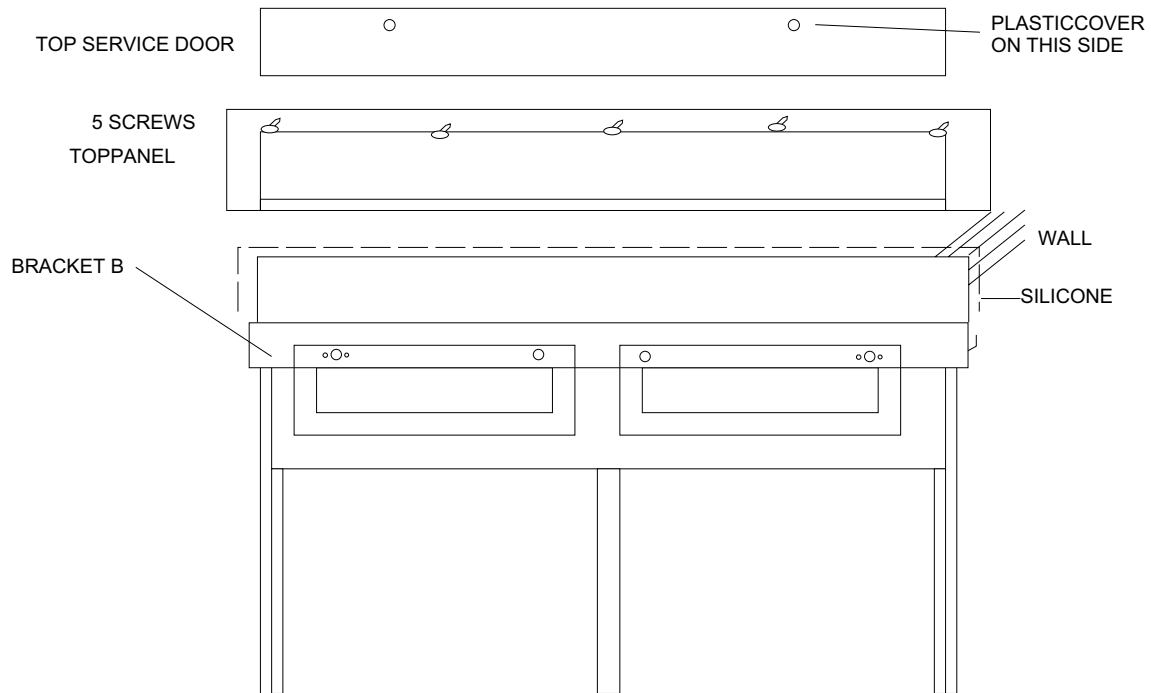


figure 14-8

- 30.** Apply SILICONE along the WALL OPENING.
- 31.** Insert TOP PANEL into BRACKET B.
- 32.** Press TOP PANEL against the wall.
- 33.** Screw the TOP PANEL to the wall.
- 34.** Insert TOP SERVICE DOOR and close it.
- 35.** Close the PLASTIC COVER.

- 36.** Place WALL PANELS RIGHT and LEFT into BRACKETS A (see FIGURE 14-9).
- 37.** Push the WALL PANELS up to the TOP PANEL.
- 38.** Hold the WALL PANELS in that position until the next step is finished.
- 39.** Drill 3 holes for the screws into each WALL PANEL. These also mark the position of the ANCHORS in the wall.

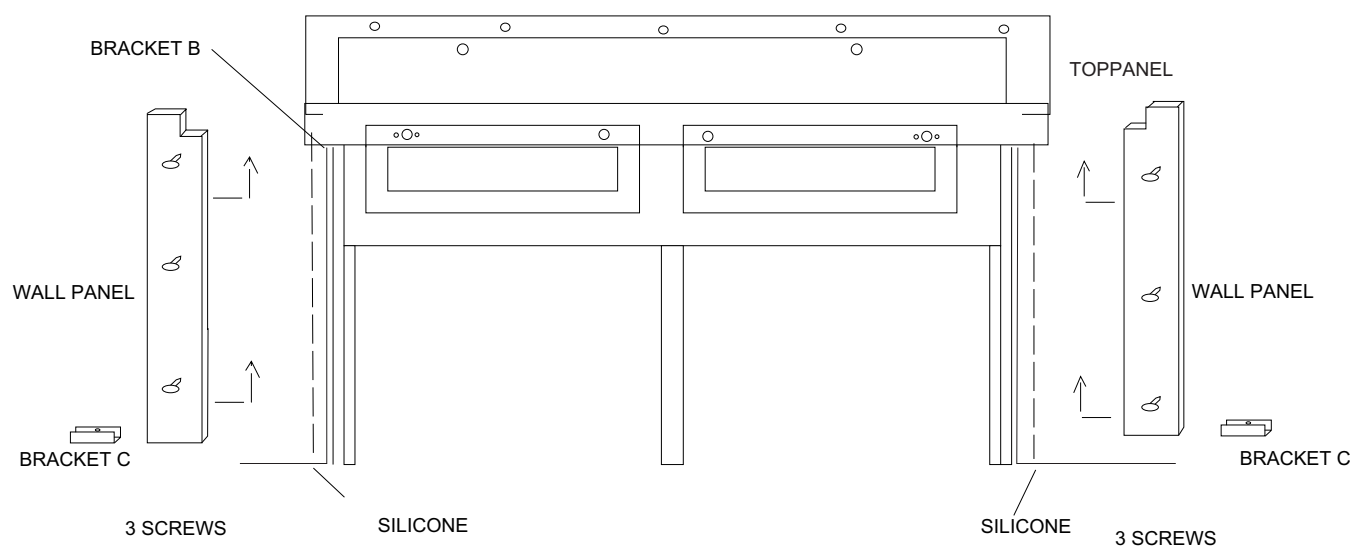


figure 14-9

- 40.** Remove the WALL PANELS.
- 41.** Make holes for the ANCHORS at the marked positions.
- 42.** Insert the ANCHORS into the holes.
- 43.** Apply SILICONE along the wall opening.
- 44.** Place WALL PANELS RIGHT and LEFT into BRACKETS A.
- 45.** Push them up to the TOP PANEL.

- 46.** Insert BRACKET C under the WALL PANELS.
- 47.** Mount the WALL PANELS to the wall with 3 SCREWS.
- 48.** Mount the PROCESSOR PANEL to the LONG SIDE PANEL using two SCREWS 35 mm long (see FIGURE 14-10). The figure below shows the installation of the PROCESSOR at the left side.

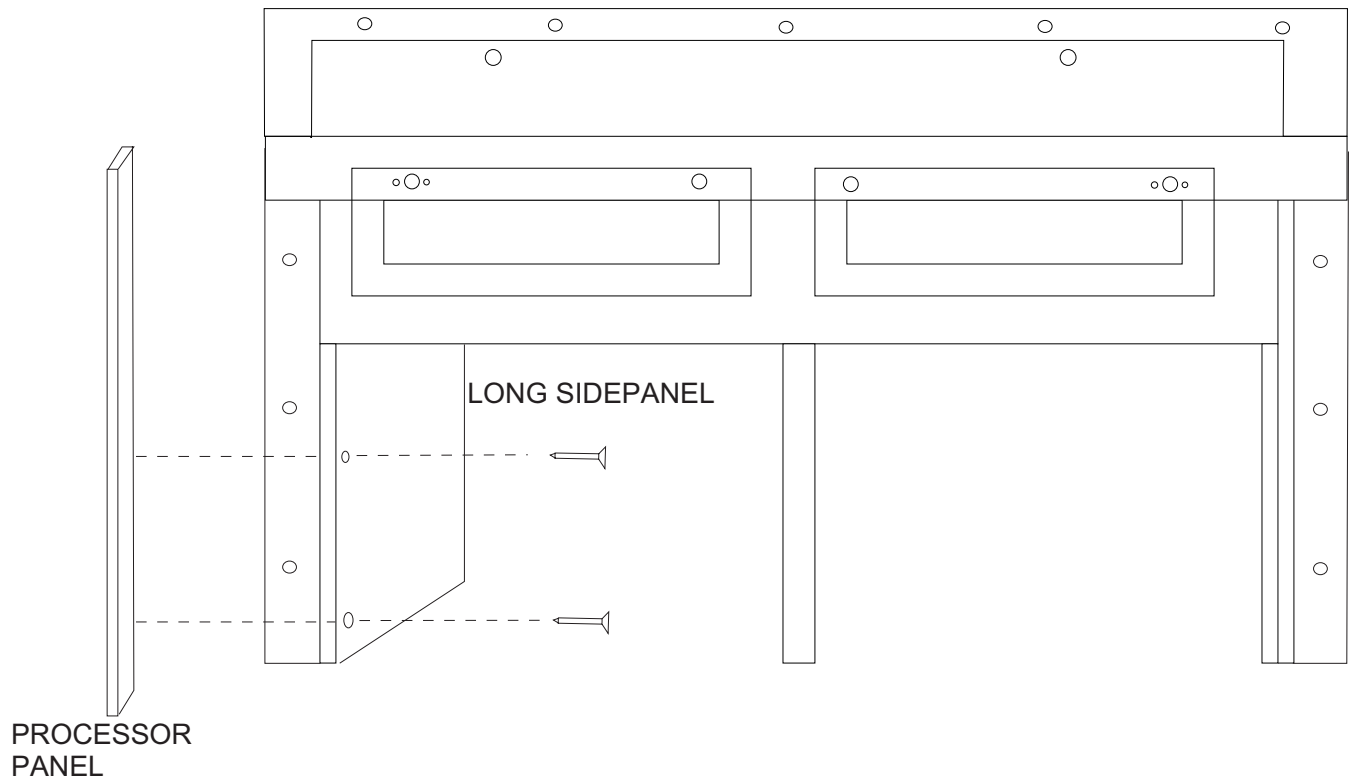


figure 14-10



- 49.** Add the WASHER from the INSTALLATION KIT under the MOUNTING BOLT for the KODAK Multiloader 700 Plus adapterplate and under the MOUNTING BOLT for the PROCESSOR ADAPTER).

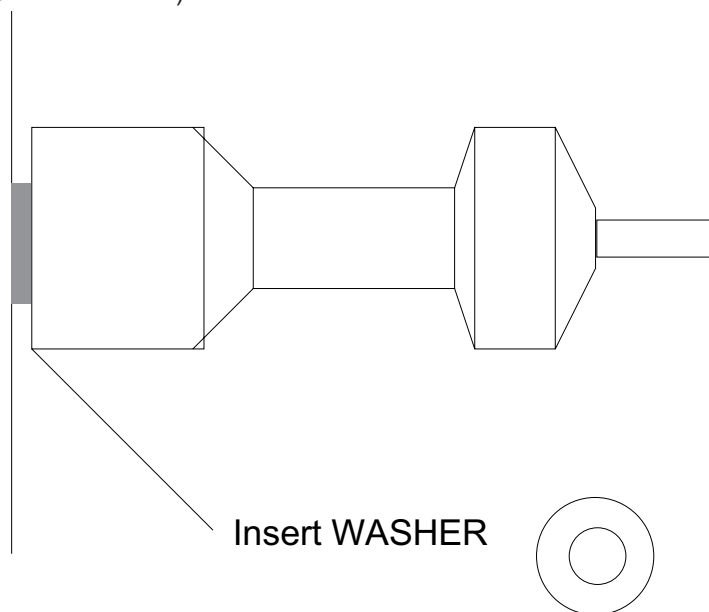


figure 14-11

- 50.** Install the PROCESSOR according to the INSTALLATION GUIDE SBS.
- 51.** Install the KODAK Multiloader 700 Plus to the SBS according the INSTALLATION GUIDE SBS.
- 52.** Insert BACK SERVICE DOOR.

**TEST:**

- 1.** From the darkroom check for light-tightness.
- 2.** If there is any light, use black SILICONE to close the gaps.



## **15. SEISMIC BRACKETS**

### **PACKING LIST**

<b>8B6586</b>	<b>SEISMIC KIT, it consists of</b>	
	INSTALLATION INSTRUCTIONS	1
	SEISMIC BRACKET No. 1	1
	SEISMIC BRACKET No. 2	2
	SEISMIC BRACKET No. 3	1
	TEMPLATE	1
261929	ANCHOR	8
188623	BOLT - STAINLESS STEEL	8
173824	WASHER - STAINLESS STEEL	8

## INTRODUCTION

The SEISMIC BRACKETS of this KIT secure the ML700 only. The SBS itself needs no seismic protection, for it is connected to the ML700 and to the PROCESSOR. The SEISMIC BRACKETS for the PROCESSOR must be ordered separately. **INSTALLATION NOTE** To install the SEISMIC BRACKETS the complete SBS-SYSTEM must be installed first.

1. Disconnect the ML700 from the SBS.
2. Take off the LEFT-, RIGHT- and REAR COVER of the ML700.
3. Move the ML700 back in its correct position, lock it to the SBS and pull out the DRAWER approx. 6 inches.
4. Use SEISMIC BRACKET N0.3 as a RULER and mark the front left corner with a FELT PEN onto the floor.

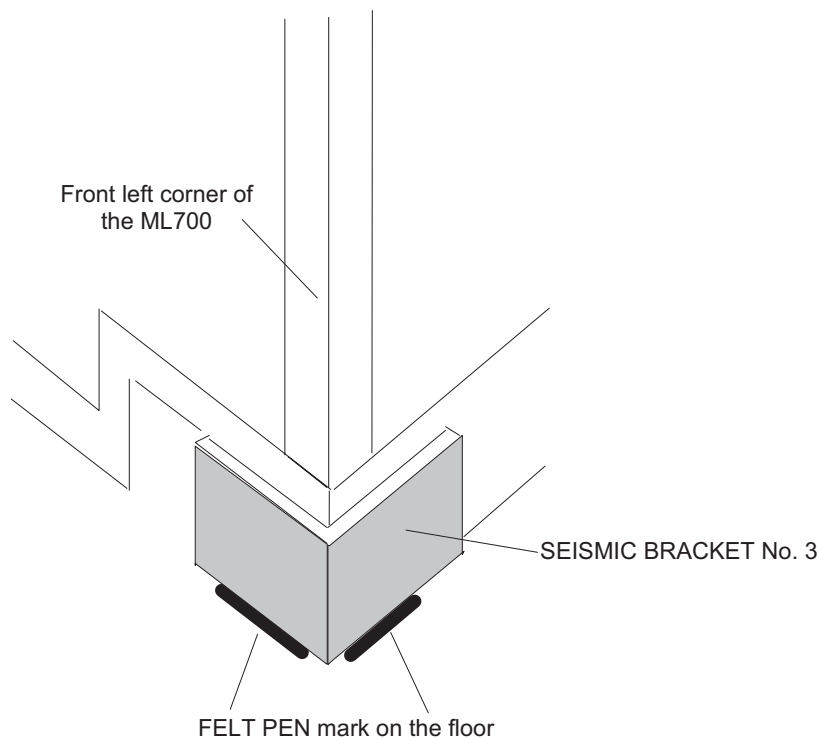


figure 15-1

5. Do the same procedure for the front right corner of the ML700.
6. Disconnect the ML700 from the system and move it aside.

7. Place the **TEMPLATE** (scale 1:1) on the floor. Ensure that its marks for the front corners line up with the marks made in step 4 and 5. Fasten the **TEMPLATE** with tape to the floor.

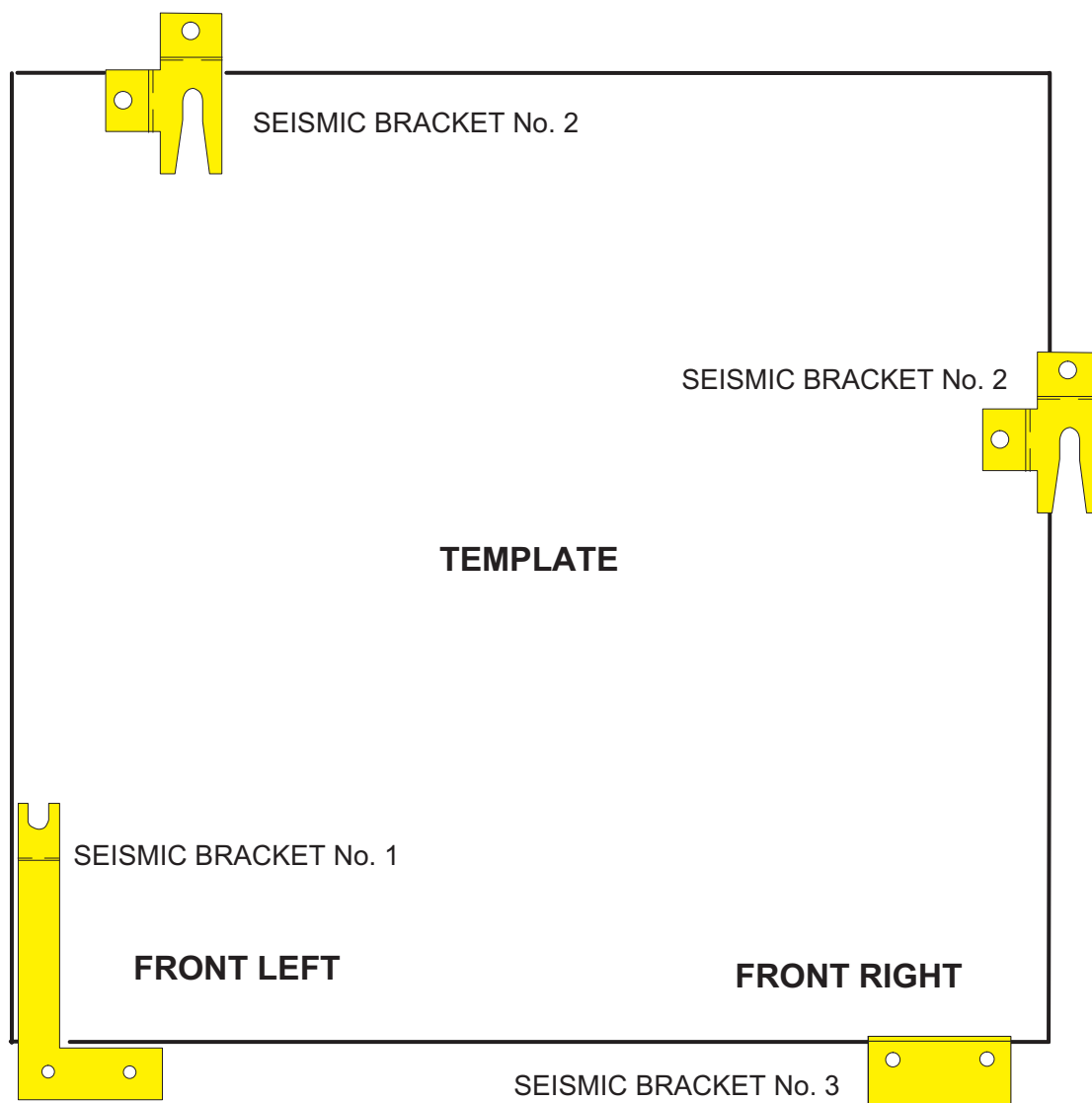


figure 15-2

**NOTE**

SEISMIC BRACKET No. 2 is used two places. The single oblong hole in the vertical part of SEISMIC BRACKET No. 3 fits over the **SCREW HEAD** of the **ML700 TRANSFORMER COVER**.

8. Mark the bore holes for the 4 **SEISMIC BRACKETS** on the floor and remove the template.

- 9.** Drill the holes for the ANCHORS.
- 10.** Insert the ANCHORS (261929) into the floor.
- 11.** Fasten SEISMIC BRACKETS No. 2 with 2 BOLTS (188623) and 2 WASHERS (173824) each to the floor. NOTE The holes in the SEISMIC BRACKETS are bigger than the BOLTS to compensate for small errors when drilling the holes into the floor.
- 12.** Mount all ML700 COVERS.
- 13.** Carefully move the ML700 into its correct position. Ensure that its levelling feet slide into the SEISMIC BRACKETS No. 2.
- 14.** Fasten the ML700 to the SBS.
- 15.** Fasten SEISMIC BRACKET No. 1 with 2 BOLTS (188623) and 2 WASHERS (173824) to the floor.
- 16.** Pull out the ML700 DRAWER and fasten SEISMIC BRACKET No. 3 with 2 BOLTS (188623) and 2 WASHERS (173824) to the floor. NOTE The single oblong hole in the vertical part of SEISMIC BRACKET No. 3 fits over the SCREW HEAD of the ML700 TRANSFORMER COVER
- 17.** Push the ML700 DRAWER back in.

### NOTE

From now on SEISMIC BRACKETS No. 1 and 3 have to be removed, if the ML700 has to be separated from the system.



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